Issue No.: Revision 16
Issue Date: 5 August 2025
Project No.: ASCL-210168223

Landscape and Visual Mitigation Plan

FOR

Service Contract No. WD/02/2021
Environmental Team for Hung Shui Kiu/ Ha Tsuen New Development Area Site 1 Works – Site Formation and Engineering Infrastructure
(Interim Section of Road D1 under Environmental Permit No. EP-528/2017)

Prepared by:

Acuity Sustainability Consulting Limited

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1. INTRODUCTION

1.1 Background

Eight New District Distributor Roads (Road D1 to D8) in Hung Shui Kiu New Development Area (the Project) is a designated project (DP) under the Environmental Impact Assessment Ordinance (EIAO). An Environmental Permit No. EP-528/2017 (hereafter "the EP") is granted to the Project Proponent - Civil Engineering and Development Department (CEDD).

Acuity Sustainability Consulting Limited was commissioned by the CEDD as the Environmental Team to prepare and submit the Landscape and Visual Mitigation Plan (LVMP) for Contract No. YL/2020/03 in accordance with Condition 2.7 of the EP.

China Geo-Engineering Corporation (the Contractor) was commissioned by CEDD to undertake the construction of Hung Shui Hui / Ha Tsuen New Development Area Stage 1 Works Site Formation and Engineering Infrastructure under Contract No. YL/2020/03. The Contract involves site formation works for various sites, road works and associated infrastructure works. The construction of interim section of the proposed Road D1 as part of the above works Contract is included in Package A of the DPs as grouped under Section 11.4.1 of the approved EIA Report.

Under Agreement No. CE 56/2016 Hung Shui Kiu New Development Area Stage 1 Works – Design and Construction, Tree Preservation and Removal Proposal (rev.4) dated September 2021 (hereafter referred as "TPRP (rev.4)") was prepared and has obtained a blanket approval by Lands Department on 31st December 2021. 16 nos. of trees were identified in the accessible area of interim section of the proposed Road D1 boundary.

The Contractor was engaged by CEDD to conduct a tree survey for Hung Shui Hui / Ha Tsuen New Development Area Stage 1 Works Site Formation and Engineering Infrastructure, including trees within the interim section of Road D1. The inaccessible area as identified in the TPRP (rev.4) in the interim section of Road D1 was also surveyed after the Contractor takes possession of the site. Amendment to the approved TPRP (July 2023) Revision 6 (hereafter referred as "TPRP (rev.6)") was therefore prepared to propose tree treatment for the additional trees. As DEVB TC(W) No. 7/2015 has been superseded by DEVB TC(W) No. 4/2020 in April 2020, the amendment submission of TPRP should be processed by Tree Works Vetting Panels (TWVPs) under respective project department (i.e., CEDD for this Assignment). The TPRP (rev.6) was accepted by the CEDD Tree Works Vetting Panel C on 18th December 2023, refer to **Appendix K** for the approval memo.

1.2 Objective

This LVMP aims to address landscape and visual impacts that are associated with the construction of interim section of the proposed Road D1 under Contract No. YL/2020/03, and hence to suggest relevant mitigation measures in accordance with recommendations in the approved Environmental Impact Assessment Report (Register No. AEIAR-203/2016) (hereinafter referred to as "the approved EIA Report") and Environmental Monitoring and Audit Manual (EM&A Manual). It has included design details, confirmation of the feasibility for proposed planting, locations, implementation programme, maintenance and management schedules, and drawings in the scale of 1:1,000 or other appropriate scale of the landscape and visual mitigation measures of the Project.

This LVMP was prepared based on the additional tree survey result in TPRP (rev.6) to incorporate the proposed treatment for additional tree in inaccessible area.

1.3 Scope and Location of the Project

The works of Contract No. YL/2020/03 mainly include:

- site clearance and formation (including land decontamination works) for about 14 hectares of land, together with the provision of associated engineering infrastructure;
- construction of a district distributor road of about 500 metres long, which will be a dual two- to three-lane carriageway connecting to the existing interchange underneath the Kong Sham Western Highway, construction of a single two-lane local road of about 350m long, widening of a section of Fung Kong Tsuen Road to single two-lane carriageway of about 150m long and associated junction/road improvements;
- construction of about 1,700m-long sewers, about 360m-long sewage rising mains and a sewage pumping station (including electrical and mechanical works);
- construction of about 1,700m-long drainage pipes and the associated detention pond;
- construction of about 2,300m-long water mains; and
- implementation of environmental mitigation measures, environmental monitoring and an audit programme for the works mentioned above.

The location plan and site layout plan of the interim section of Road D1 under Contract No. YL/2020/03 is shown in **Appendix A**.

2. LANDSCAPE AND VISUAL IMPACT AND MITIGATION MEASURES

2.1 Landscape Character Areas and Landscape Resources to be affected

According to the approved EIA Report, the Landscape Character Areas (LCAs) and Landscape Resources (LRs) affected by the construction of interim section of Road D1 (interim section of Road D1 Works) include LCA1 - Miscellaneous Rural Fringe Landscape, LR2 - Hillside Woodland, LR9 - Vegetation within Industrial Land / Open Storage and LR12 - Vegetation on Modified Slopes. The location of affected LCAs and LRs are shown in Figure 11.23d and Figure 11.20d of the approved EIA Report and in **Appendix B1** and **Appendix B2** respectively of this Plan.

LCA1 affected by the interim section of Road D1 Works is mainly open storage plots and the impact significance before mitigation is moderate. LR2, LR9 and LR12 affected by the interim section of Road D1 Works are Ngau Hom Shek (ID no. 2.4), Ha Tsuen Road (ID no. 9.9) and Ha Tsuen (ID no. 12.2), the impact significance before mitigation on all LRs ranges from slight to insubstantial. The impact significance before mitigation can be referred to Section 11.7A Table 11.8 of the approved EIA Report.

2.2 Mitigation measures for Landscape Resources and Landscape Character Areas

The landscape mitigation measures for the affected LCA and LRs are recommended in Section 11.7A Table 11.8 and Figure 11.24d of the approved EIA Report and are tabulated in Table 2.2.1a in below. As the construction works under Contract No. YL/2020/03 only covers an interim section of Road D1, only some of the mitigation measures for construction phase – CM(s) and some of mitigation measures for operation phase – OM(s) are relevant to this construction contract, and they are summarized in Table 2.2.1b. Details of each CM and OM are presented in Table 2.2.3a and Table 2.2.3b.

A layout plan of mitigation measures implementation relevant to the interim section of Road D1 Works is shown in **Appendix C**. The implementation, maintenance and management schedule of respective CMs and OMs are detailed in Table 2.2.4a and Table 2.2.4b.

2.3 Visually Sensitive Receivers to be affected

According to the approved EIA Report, the visual sensitive receivers (VSRs) that are potentially affected by the interim section of Road D1 Works include VSR ID REC1 – Hikers along Castle Peak Trails, VSR ID REC8 – Hikers along the hillside North of the NDA, and VSR ID T1-Motorists along Kong Sham Western Highway. The location of affected VSRs is shown in Figure 11.28a and 11.30a of the EIA report and in **Appendix B3** of this Plan.

2.4 Mitigation Measures for Visually Sensitive Receivers

The visual mitigation measures for affected VSRs are recommended in Section 11.8A Table 11.11 of the approved EIA Report to reduce potential visual impact arising from construction phase and operation phase. The recommended CMs and OMs to corresponding VSRs are listed in Table 2.2.2a below. As the construction works under Contract No. YL/2020/03 only covers an interim section of Road D1, only some of the CMs and OMs are relevant to this construction contract, and they are summarized in Table 2.2.2b, detail descriptions on each CM and OM are presented in Table 2.2.3a and Table 2.2.3b.

With the recommended mitigation measures, the concerned VSRs experience slight to insubstantial magnitude of change in visual quality as a result of the proposed road. The mitigation measures are considered to adequately compensate for the change in visual outlook for these VSRs. The overall change that is to occur as a result of development of proposed road will ultimately bring about positive change. The transformation of existing roads with unplanned, poor-quality trees and roadside vegetation into new roads with proper planter width, soil depth, and carefully selected street trees will greatly improve the visual outlook as well as provide beautification and greening to the development area.

With the implementation of mitigation measures illustrated in **Appendix C**, visual impacts to most of the VSRs can be reduced to slight or insubstantial when the proposed landscape works become mature during year 10 of operation. Photomontages illustrating the baseline conditions and the conditions during operation with mitigation measures are shown in **Appendix D**.

2.5 Implementation, Maintenance and Management Schedule of Landscape and Visual Mitigation Measures

The general layout on the implementation of CMs and OMs presented in **Appendix C** provides an overview on implementation location of landscape and visual mitigation measures. The CMs and OMs implementation schedule as well as maintenance and management schedule are tabulated in Table 2.2.4a and Table 2.2.4b. The landscape mitigation measures relevant to the interim section of Road D1 Works during the design, the construction and operational phases in the Project Implementation Schedule (PIS) of the approved EIA Report is summarized in the **Appendix J.**

Table 2.2.1a Recommended mitigation measures and impact significance for LRs and LCAs (DP1, 2, 5, 6 &12) in Section 11.7A Table 11.8 in the approved EIA Report

ID No.	Landscape Resource / Character Areas		Impact Significance BEFORE Mitigation (None, Insubstantial, Slight, Moderate, Substantial)		Recommended Mitigation Measures	Recommended Mitigation Measures
			Construction	Operation	Construction Phase	Operation Phase
Landscape Character Area						
LCA1	Miscellaneous Rural Fringe Landscape		Slight	Slight	CM1, 2, 3, 4, 8, 9, 10, 11,12, 13, 14	OM1, 4, 6, 13, 14
Landscape Resources						
2.4	LR2 Hillside Woodland	Ngau Hom Shek	Insubstantial	Insubstantial	CM1, 2, 3, 4, 8, 9, 10, 11,12, 13, 14	OM1, 4, 6, 13, 14
9.9	LR9 Vegetation within Industrial Land / Open Storage	Ha Tsuen Road	Slight	Slight	CM1, 2, 3, 4, 8, 9, 10, 11,12, 13, 14	OM1, 4, 6, 13, 14
12.2	LR12 Vegetation on Modified Slopes	Ha Tsuen	Slight	Slight	CM1, 2, 3, 4, 8, 9, 10, 11,12, 13, 14	OM1, 4, 6, 13, 14

Table 2.2.1b Recommended mitigation measures for LRs and LCAs relevant to Interim Section of Road D1 Works under Contract No. YL/2020/03

ID No.	Landscape Resource / Character Areas		Impact Significance BEFORE Mitigation (None, Insubstantial, Slight, Moderate, Substantial)		Recommended Mitigation Measures	Recommended Mitigation Measures
			Construction	Operation	Construction Phase*	Operation Phase*
Landscape Character Area						
LCA1	Miscellaneous Rural Fringe Landscape		Slight	Slight	CM1, 2, 3, 8, 9, 11,13	OM1,6,7
Landscape Resources						
2.4	LR2 Hillside Woodland	Ngau Hom Shek	Insubstantial	Insubstantial	CM1, 2, 3, 8, 9, 11,13	OM1,6,7
9.9	LR9 Vegetation within Industrial Land / Open Storage	Ha Tsuen Road	Slight	Slight	CM1, 2, 3, 8, 9, 11,13	OM1,6,7
12.2	LR12 Vegetation on Modified Slopes	Ha Tsuen	Slight	Slight	CM1, 2, 3, 8, 9, 11,13	OM1,6,7

*Remark: The recommended mitigation measures relevant to Interim Section of Road D1 Works under Contract No. YL/2020/03 are reference to Figure 11.24d in the approved EIA Report

Table 2.2.2a Recommended mitigation measures for VSRs in the approved EIA Report Section 11.8A Table 11.11

VSR Type & ID.	Key Visually Sensitive Receiver (VSR)	Impact Significance Threshold BEFORE Mitigation (None, Insubstantial, Slight, Moderate, Substantial)		Recommended Mitigation Measures	Recommended Mitigation Measures
		Construction	Operation	Construction Phase)	Operation Phase)
Recreational VSRs					
REC-1	Hikers along Castle Peak Trails	Substantial	Substantial	CM1, 3, 4, 5, 6, 7, 9, 10, 11, 13, 14	OM1, 3, 4, 6, 7, 10, 13, 14
REC-8	Hikers along the Hillside north of the Project area	Substantial	Moderate	CM1, 3, 4, 5, 6, 7, 9, 10, 11, 13, 14	OM1, 3, 4, 6, 7, 10, 13, 14
Travelling VSRs					
T1	Motorists along Kong Sham Western Highway	Moderate	Moderate	CM1, 3, 4, 5, 6, 7, 9, 10, 11, 13, 14	OM1, 3, 4, 6, 7, 10, 13, 14

Table 2.2.2b Recommended mitigation measures for VSRs relevant to Interim Section of Road D1 Works under Contract No. YL/2020/03

VSR Type & ID.	Key Visually Sensitive Receiver (VSR)	Impact Significance Threshold BEFORE Mitigation (None, Insubstantial, Slight, Moderate, Substantial)		Recommended Mitigation Measures	Recommended Mitigation Measures
		Construction	Operation	Construction Phase*	Operation Phase*
Recreational VSRs					
REC-1	Hikers along Castle Peak Trails	Substantial	Substantial	CM1, 3, 5, 6, 7, 9, 11,13	OM1, 3, 6, 7
REC-8	Hikers along the Hillside north of the Project area	Substantial	Moderate	CM1, 3, 5, 6, 7, 9, 11,13	OM1, 3, 6, 7
Travelling VSRs					
T1	Motorists along Kong Sham Western Highway	Moderate	Moderate	CM1, 3, 5, 6, 7, 9, 11,13	OM1, 3, 6, 7

*Remark: The recommended mitigation measures relevant to Interim Section of Road D1 Works under Contract No. YL/2020/03 are reference to Figure 11.24d in the approved EIA Report

Table 2.2.3a Details of CMs

Landscape and Visual Mitigation Measures for Construction Phase	Description of mitigation measures
CM1 - Minimised construction area and contractor's temporary works areas The construction area and contractor's temporary works areas should be minimised. General Good Practice Measures - For areas unavoidably disturbed by the Project on a short-term basis e.g. works areas, the general principle to try and restore these to their former state to suit future land use, should be adhered to.	The construction area and contractor's temporary works areas will be minimised.
CM2 - Stripping and storing of topsoil Topsoil, where identified, should be stripped and stored for re-use in the construction of the soft landscape works, where practical. The Contract Specification shall include storage and reuse of topsoil as appropriate. On potentially contaminated sites (as per Section 8 of the approved EIA report) where investigation results indicate soil contamination is present, the use of contaminated soils for planting is to be avoided where appropriate.	There is no requirement of re-use of topsoil in Contract Specification / C&DMMP
CM3 - Protection of existing trees Tree Protection & Preservation – Existing trees to be retained within the Project Site should be carefully protected during construction. Detailed Tree Protection Specification shall be provided in the Contract Specification. Under this specification, the Contractor shall be required to submit, for approval, a detailed working method statement for the protection of trees prior to undertaking any works adjacent to all retained trees, including trees in Contractor's works areas. A detailed tree survey will be carried out for the Tree Removal Application (TRA) process which will be carried out at the later detailed design stage of the Project. The detailed tree survey will propose which trees should be retained, transplanted or felled and will include details of tree protection measures for those trees to be retained.	According to the TPRP (rev.4), the tree survey identified 16 no. of tree were identified within the accessible area of DP boundary of the interim section of Road D1, 2 of them will be retained, their locations are in showed in the Tree Survey Plan in **Appendix E** and the Individual Tree Assessment Schedule is showed in **Appendix F**. An additional tree survey was conducted to the area that was previously inaccessible, 69 nos. of additional trees are surveyed and all of them are proposed to be removed in TPRP (rev.6). The locations of the additional trees are showed in Figures 3.2k, 3.2n, 3.2q, 3.2r and 3.2s in **Appendix E**. The Individual Tree Assessment Schedule for additional trees is showed in **Appendix F**. No additional trees are proposed to be retained. No additional tree was found in Figure 3.2h, Figure 3.1 and Figure 3.2p. To protect the existing tree, the Contractor will submit a method statement of tree protection for approval prior to undertaking any works adjacent to the retained tree.
CM4 – Transplantation of existing trees where practical Trees unavoidably affected by the Project works should be transplanted where practical. Trees should be transplanted straight to their final receptor site and not held in a temporary nursery as far as possible. A detailed Tree Transplanting Specification shall be provided in the Contract Specification, where applicable. Sufficient time for necessary tree root and crown preparation periods shall be allowed in the Project programme. A detailed transplanting proposal will be submitted to relevant Government departments for approval in accordance with DEVB TCW Nos 6/2015 and 7/2015 and final locations of	No tree is proposed to be transplanted due to the low suitability for transplanting of trees.

Landscape and Visual Mitigation Measures for Construction Phase	Description of mitigation measures
transplanted trees should be agreed prior to commencement of the work. For trees associated with highways e.g. roadside planting along highways, that are unavoidably affected and should be transplanted, HyD HQ/GN/13 'Interim Guidelines for Tree Transplanting Works under Highways Department's Vegetation Maintenance Ambit' should be referred to.	
CM5 – Control of night-time lighting Control of night-time lighting and glare by hooding all lights. Construction day and nighttime lighting should be controlled to minimise glare impact to adjacent VSRs during the Construction phase.	No plan of night work at this moment. Night-time lighting will be controlled in case of any night works.
CM6 – Construction of decorative hoarding around construction works Erection of decorative mesh screens or construction hoardings around works areas in visually unobtrusive colours.	Hoarding will be constructed around works area in accordance with CEDD standard drawing.
CM7 – Reduction of construction period to practical minimum Reduction of construction period to practical minimum.	Construction works will be carefully planned to reduce construction period as far as practicable.
CM8 – Prevention of run-off Limitation of / Ensuring no run-off into surrounding landscape and prohibit run-off from entering adjacent water bodies and waterways.	Surface run-off generated from the works will be treated before discharge to adjacent waterways.
CM9 – Phasing of construction stage Phasing of the construction stage to reduce visual impacts.	Construction works will be carried out by phases to reduce visual impacts.
CM10 – Advance screen planting Advance screen planting of fast-growing tree and shrub species to noise barriers and hoardings. Trees shall be capable of reaching a height >10m within 10 years.	Not applicable to the interim section of Road D1 Works.
CM11 - Minimise disturbance footprints To minimise landscape and visual impacts, the footprint and elevation of such elements should be optimised to reduce topographical/ landform changes, as well as reduce land take and interference with natural terrain. Where there is a need to significantly cut into the existing landform, retaining walls should be considered as well as cut slopes, to minimise landform changes and land resumption, while also considering visual amenity. Earthworks and	To minimise landscape and visual impacts, the footprint of the interim section of Road D1 has been optimised to reduce land take and interference with natural terrain. Retaining walls were adopted at L51 near the interim section of Road D1 to minimize landform changes and land resumption.

Landscape and Visual Mitigation Measures for Construction Phase	Description of mitigation measures
engineered slopes should be designed to be a visually interesting landform, compatible with the surrounding landscape and to mimic the natural contouring and terrain e.g. introduction and continuation of natural features such as spurs and ridges where appropriate, to support assimilation with the hillside setting.	
CM12 – Protection of existing water courses For all the natural rivers and streams inside the development area, consideration of protection measures should be made to minimise any impacts from the construction works. Avoid affecting Watercourses – In the detailed design, consideration should be made of watercourses, to minimise any impacts e.g. at new bridge crossings, viaducts, road alignment etc. Guidelines stated should be followed. Bridges and box culverts should also be used to minimise the necessity of watercourse modification and protect the watercourses where necessary.	No natural rivers and streams found inside the works area of DP boundary of the interim section of Road D1 Works.
CM13 - Hydroseeding on modified slopes Hydroseeding of modified slopes should be done as soon as grading works are completed to prevent erosion and subsequent loss of landscape resources and character. Woodland tree seedlings and/ or shrubs should be planted where slope gradient and site conditions allow. In addition, landscape planting should be provided for the retaining structures associated with modified slopes where conditions allow. All slope landscaping works should comply with GEO Publication No. 1/2011-Technical Guidelines on Landscape Treatment for Slopes.	Along the interim section of DP boundary of Road D1 under Construction Contract No. YL/2020/03, the slope will be modified in accordance with DEVB TC(W) NO. 2/2018, soiling of minimal 300mm depth and hydroseeding with will be performed as soon as the completion of modification works, all slope landscaping works should comply with GEO Publication No. 1/2011-Technical Guidelines on Landscape Treatment for Slopes. The location of hydroseeding works is shown in **Appendix G**.
CM14 – Integrate Open Space Network with existing nullah conditions For watercourses affected during construction, measures should be sought to minimise the impact with respect to the existing nullah conditions, existing shrubs and trees along the banks. Where natural streams are unavoidably affected along some of their length, they can be diverted to avoid the proposed new developments and retain the integrity of the whole stream. Detailed design of any stream diversion should follow the Guidelines in ETWB Technical Circular (Works) No. 5/2005 (Protection of natural streams/rivers from adverse impacts arising from construction works) and appropriate construction methods should be used.	Not applicable to DP boundary of the interim section of Road D1.

Table 2.2.3b Details of OMs

Landscape and Visual Mitigation Measures for Operation Phase	Description of mitigation measures
OM1 – Compensatory tree planting where practical Compensatory Planting – Compensatory tree planting for felled trees shall be provided to the satisfaction of relevant Government departments. Required numbers and locations of compensatory trees shall be determined and agreed separately with Government during the Tree Removal Application process under ETWBTC 7/2015. Compensatory planting is proposed at the potential open areas such as open spaces, amenity areas, open areas of the streetscapes, as well as the open areas within development lots. Tree compensation within the HSK NDA will be provided at a 1:1 ratio. This means that for every tree that is removed, a new one will be planted. Furthermore, trees affected by DPs will be compensated within their respective DP areas.	There are 19 nos. of trees identified inside the accessible area are affected by the construction of the interim section of Road D1, among which 16 nos. of tree are proposed to be removed, and 3 nos. will be retained. Among 16 nos. of proposed removed trees, 12 nos. of trees are undesirable species (*Leucaena leucocephala*), according to Appendix C of DEVB TC(W) No. 4/2020, compensation for removal of tree with undesirable species is excluded. The proposed tree treatment for these 19 nos. trees was covered in TPRP (rev.4) and has obtained approval on 31st December 2021. According to the additional tree survey results in TPRP (Rev.6), 69 nos. additional trees as shown in **Appendix E** are affected by the construction of the interim section of Road D1 and are proposed to be removed. Among these 69 nos. additional tree to be removed, 17 nos. of them are species of *Leucaena leucocephala*, which is an undesirable tree species and is excluded from compensation requirement under DEVB TC(W) No. 4/2020. Combining the tree survey results in TPRP (Rev.4) and TPRP (Rev.6), 16+69=85 nos. of trees are removed inside the DP boundary of interim section of Road D1 under Contract No. YL/2020/03. According to the DEVB TC(W) No. 4/2020, as far as practicable, the implementation of compensatory tree planting should be of a ratio not less than 1:1 in terms of number, but excluding trees of undesirable species, therefore, 85-29=56 nos. of compensatory tree should be planted within in the DP boundary of interim section of Road D1. However, due to the limited planting space after formation of the interim section of Road D1, only 18 nos. compensatory tree are proposed be planted along the roadside of the interim section of Road D1 with consideration of sightlines and technical requirement such as illumination as indicated in **Appendix H**. The shortfall of 38 compensatory trees is to be planted at Road L53 and Road L54 as indicated on *Tree Planting Plan*, Drawing no. 380288/LU/SH/SK0401 of Appendix H.
OM3 - Sensitive design of hardscape elements along roadsides Streetscape elements along new and existing roads (e.g. paving, signage, street furniture, lighting etc.) shall be sensitively designed in a manner that responds to the existing and planned urban context.	The hardscape along the interim section of Road D1 is designed with the consideration of industrial-rural context of the surrounding environment and sustainability. Hence, roadside pedestrian path will be paved using recycled glass paver. The colour of the proposed paving will be a red-brown tone, which is a mix of red, light brown and dark brown. This will enhance projects sustainable credentials but also match the surrounded semi-rural environment. This approach reinforces the projects desire to be inherently sustainable. The pedestrian footpath paving pattern adopted the Highways Department (HyD) standard drawing suggested stretcher pattern for the straight footpath, and herringbone pattern for the turning point at the road intersection. Bandings are applied at edges of the footpath, and at locations with pattern and level changes. Half pavers are used at the edge of the paving to avoid small pieces. The roadside paving design can be referred to **Appendix I.**

Landscape and Visual Mitigation Measures for Operation Phase	Description of mitigation measures
OM6 - Quality greening along roadside amenity strips Shade trees, ornamental tree / shrub / climber planting should be provided along roadside amenity strips to enhance the townscape quality. Provision of utility free planting strips for quality planting shall be adopted according to DEVB TCW 2/2012.	Planting of 18 nos. compensatory trees of 4 species and shrubs of 21 species are proposed along the roadside amenity strips of the interim section of Road D1. The planting layout plan can be referred to **Appendix H**.
OM7 - Design of street lighting Appropriate design of street lighting to avoid glare and light pollution to surrounding areas.	The street lighting will be designed not to project skyward or produce glare to avoid producing lighting pollution.

Table 2.2.4a Implementation Schedule for CMs

Landscape and Visual Mitigation Measures for Construction Phase	Implementation Stage	Funding Agent	Implementation Agent
CM1 - Minimised construction area and contractor's temporary works areas	Construction phase	CEDD	Government / Developer HSK/HT NDA Stage 1: Detailed Design Consultant / Contractor HSK/HT NDA Phase 2: Contractor
CM2 - Stripping and storing of topsoil	Construction phase	CEDD	Government / Developer HSK/HT NDA Stage 1: Detailed Design Consultant / Contractor
CM3 - Protection of existing trees	Construction phase	CEDD	Government / Developer HSK/HT NDA Stage 1: Detailed Design Consultant / Contractor
CM5 – Control of night-time lighting	Construction phase	CEDD	Government / Developer HSK/HT NDA Stage 1: Contractor HSK/HT NDA Phase 2: Contractor
CM6 – Construction of decorative hoarding around construction works	Construction phase	CEDD	HSK/HT NDA Stage 1: Contractor HSK/HT NDA Phase 2: Contractor
CM7 – Reduction of construction period to practical minimum	Construction phase	CEDD	Government / Developer HSK/HT NDA Stage 1: Detailed Design Consultant / Contractor HSK/HT NDA Phase 2: Contractor
CM8 – Prevention of run-off	Construction phase	CEDD	Government / Developer HSK/HT NDA Stage 1: Detailed Design Consultant / Contractor HSK/HT NDA Phase 2: Contractor
CM9 – Phasing of construction stage	Construction phase	CEDD	Government / Developer HSK/HT NDA Stage 1: Detailed Design Consultant / Contractor HSK/HT NDA Phase 2: Contractor

Landscape and Visual Mitigation Measures for Construction Phase	Implementation Stage	Funding Agent	Implementation Agent
CM11 - Minimise disturbance footprints	Construction phase	CEDD	Government / Developer HSK/HT NDA Stage 1: Detailed Design Consultant / Contractor HSK/HT NDA Phase 2: Contractor
CM13 - Hydroseeding on modified slopes	Construction phase	CEDD	Government / Developer HSK/HT NDA Stage 1: Detailed Design Consultant / Contractor

Table 2.2.4b Implementation, Maintenance and Management Schedule for OMs

Landscape and Visual Mitigation Measures for Operation Phase	Implementation Stage	Implementation Agent	Management Agent	Maintenance Agent
OM1 - Compensatory tree planting where practical	Operation phase	Government / Developer HSK/HT NDA Stage 1: Detailed Design Consultant HSK/HT NDA Phase 2: Contractor	HyD/ LCSD	HyD/ LCSD
OM3 - Sensitive design of hardscape elements along roadsides	Operation phase	Government / Developer HSK/HT NDA Stage 1: Detailed Design Consultant HSK/HT NDA Phase 2: Contractor	HyD	HyD
OM6 - Quality greening along roadside amenity strips	Operation phase	Government / Developer HSK/HT NDA Stage 1: Detailed Design Consultant HSK/HT NDA Phase 2: Contractor	HyD/ LCSD	HyD/ LCSD
OM7 - Design of street lighting	Operation phase	HSK/HT NDA Stage 1 Detailed Design Consultant	HyD	HyD

3. SUMMARY OF TREE TREATMENT AND COMPENSATION

3.1 Summary of Retain/Fell Tree/Compensatory Tree

According to the tree survey results in the TPRP (rev.4) and TPRP (rev.6), a total of 88 nos. of tree found within the proposed DP boundary of interim section of Road D1. 85 nos. of trees are proposed to be removed, and 3 nos. of trees are proposed to be retained. 29 nos. of the proposed removed trees are species of *Leucaena leucocephala*, which is an undesirable tree species and is excluded from compensation requirement under DEVB TC(W) No. 4/2020. No tree transplanting is recommended due to the low suitability for transplanting. The tree survey plan and their individual assessment schedule can be referred to **Appendix E** and **Appendix F**.

3.2 Summary of Tree Compensation

As stipulated in Appendix A of DEVB TCW Nos. 4/2020 – Tree Preservation, as far as possible, implementation of compensatory planting should be of a ratio not less than 1:1 in terms of number, i.e. the number of compensatory trees shall not be lower than that of the number of trees felled, including dead trees and excluding trees of undesirable species. However, there is limited planting space after the formation of the interim section of Road D1 and the associated street furniture including light poles. According to Section 2.3.3.3 of the Public Lighting Design Manual issued by Highways Department, trees and light poles should be positioned so that trees do not block off light onto the carriageways or cast confusing shadows. Besides, there are a few road junctions along the interim section of Road D1. With reference to Clause 3.3.5.1 of Vol.2 of Transport Planning and Design Manual issued by the Transport Department, a 70m (Desirable minimum)/ 50m (Absolute minimum) sight distances must be provided on the approaches to and through junctions, accesses for design speed 50km/h new road. This further reduces the space available for tree planting. A location plan of light poles and a plan with indication of sight distance from road junctions are shown in **Appendix L**. In accordance with the principle stated in OM1, trees affected by the DPs will be compensated within the respective DP areas, contingent upon the fulfillment of the aforementioned requirements deemed essential to public road safety. The optimal location for tree planting has been ascertained and maximized within the DP boundary of the interim section of Road D1. As delineated in the approved TPRP, 18 compensatory trees are to be planted along the roadside of DP boundary of the interim section of Road D1. The shortfall of 38 compensatory trees is to be planted at Road L53 and Road L54 as indicated on *Tree Planting Plan*, drawing no. 380288/LU/SH/SK0401 of Appendix H. Furthermore, shrubs of 21 different species are proposed at the remaining area along the road and at the planter along the central divider to enhance the greening on public road. The planting location, summary of compensatory tree and shrubs are shown in **Appendix H** and Table 3.1 and Table 3.2 below.

As the mitigation measures OM1 in the approved EIA report stipulates that "tree compensation within the HSK NDA will be provided at a 1:1 ratio…" and the total compensation trees inside "potential tree planting sites such as open spaces, amenity areas open areas of the streetscapes, as well as the open areas within development lots" are to be confirmed during their respective design stages. The project proponent, CEDD will coordinate with all project's parties within HSK/HT NDA for fulfilling the 1:1 tree compensation requirement.

Table 3.1 - Summary of Compensatory Tree

Tree Planting Schedule Within the interim section of Road D1						
Tree Species	**Chinese Name**	**Tree Size**	**Crown Spread (mm)**	**Overall Heigh (mm)**	**Spacing (mm)**	**No. of Trees**
Aporosa dioica	銀柴	Heavy Standard	3000	6000	10000	3
Bridelia tomentosa	土蜜樹	Heavy Standard	3000	6000	10000	4
Elaeocarpus chinensis	中華杜英	Heavy Standard	3000	6000	10000	5
Ilex rotunda var. *microcarpa*	小果鐵冬青	Heavy Standard	3000	6000	10000	6
Tree Planting Schedule Outside the interim section of Road D1 (along Road L53 and Road L54)						
Aporosa dioica	銀柴	Heavy Standard	3000	6000	10000	9
Bridelia tomentosa	土蜜樹	Heavy Standard	3000	6000	10000	8
Elaeocarpus chinensis	中華杜英	Heavy Standard	3000	6000	10000	7
Ilex rotunda var. *microcarpa*	小果鐵冬青	Heavy Standard	3000	6000	10000	14

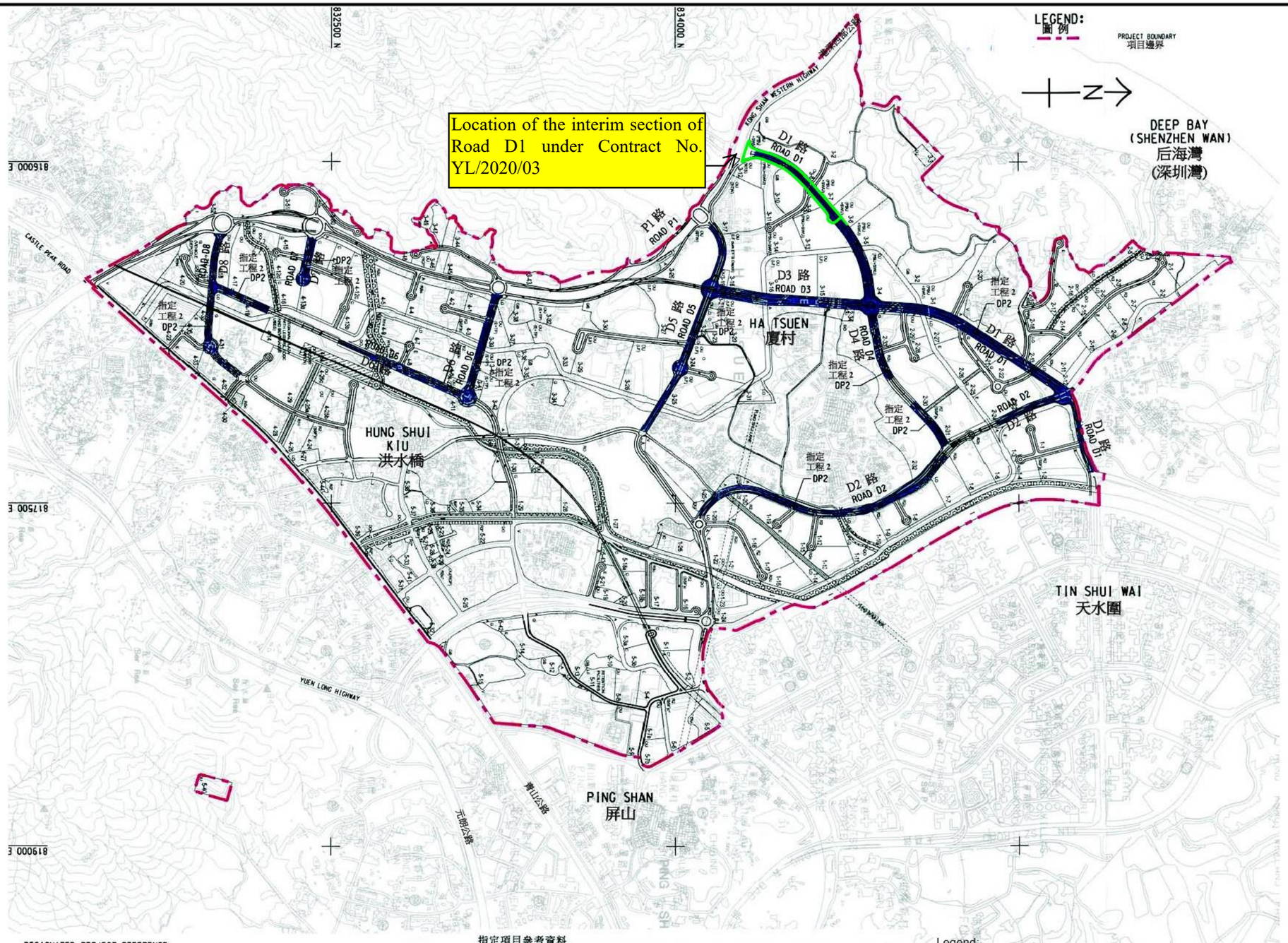
Table 3.2 - Summary of Shrubs Planting

NO.	Code	Botanical Name	Chinese Name	Specification (HxS) (mm)
1767	Als	*Allamanda schottii*	黃蟬	400(H) x 300(S)
1234	Cah	*Calliandra haematocephala*	朱纓花	400(H) x 300(S)
333	Fih	*Ficus hirta*	粗葉榕	400(H) x 300(S)
2211	Gaj	*Gardenia jasminoides*	梔子	400(H) x 300(S)
1018	Iia	*Ilex asprella*	梅葉冬青	400(H) x 300(S)
1286	Ixc	*Ixora chinensis*	龍船花	400(H) x 300(S)
762	Ixs	*Ixora stricta*	細葉龍船花	400(H) x 300(S)
1006	Lam	*Lantana montevidensis*	蔓馬纓丹	300(H) x 300(S)
676	Lcn	*Lantana camara var nivea*	雪白馬纓丹	300(H) x 300(S)
674	Lcr	*Loropetalum chinense f. rubrum*	紅花檵木	400(H) x 300(S)
952	Lir	*Litsea rotundifolia*	圓葉豺皮樟	400(H) x 300(S)
2328	Mec	*Melastoma candidum*	野牡丹	300(H) x 300(S)
1352	Mes	*Melastoma sanguineum*	毛稔	400(H) x 300(S)
900	Mep	*Melicope pteleifolia*	蜜茱萸	400(H) x 300(S)
5106	Nea	*Nephrolepis auriculata*	腎蕨	300(H) x 200(S)
5421	Phm	*Phyllanthus myrtifolius*	瘤腺葉下珠	300(H) x 300(S)
840	Psa	*Psychotria asiatica*	九節	400(H) x 300(S)
1428	Rhi	*Rhaphiolepis indica*	石斑木	400(H) x 300(S)
2311	Rht	*Rhodomyrtus tomentosa*	桃金娘	400(H) x 300(S)
1918	Rpp	*Rhododendron pulchrum var. phoeniceum*	紫杜鵑花	400(H) x 300(S)
735	Sca	*Schefflera arboricola*	鵝掌藤	400(H) x 300(S)

4. SUMMARY

This LVMP submission is prepared in fulfilment of Condition 2.7 of EP No. EP-528/2017. This LVMP submission demonstrates the design objectives of the interim section of Road D1. All landscape and visual mitigation measures during the construction and operation phase as stated in Section 11A and Appendix 13.1 of the approved EIA Report (Register No.: AEIAR-203/2016) shall be considered and adopted into the Project as far as practicable. Additional tree survey was undertaken to identify trees in the inaccessible area after contractor take possession of the site. All existing trees within the interim section of Road D1 have been surveyed, the proposed tree treatment and compensatory planting are covered in TPRP (rev.4) and the subsequent amendment submission - TPRP (rev.6) which has been approved by the CEDD Tree Works Vetting Panel C in December 2023.

APPENDIX A – LOCATION PLAN AND SITE LAYOUT PLAN OF CONTRACT NO. YL/2020/03



DESIGNATED PROJECT REFERENCE

DESIGNATED PROJECT REFERENCE NOS.		SCHEDULE 2 DESIGNATED PROJECT	WORK COMPONENT / REFERENCE IN REVISED RODP
DP 2 *	PART I. A.1	A ROAD WHICH IS AN EXPRESSWAY, TRUNK ROAD, PRIMARY DISTRIBUTOR ROAD OR DISTRICT DISTRIBUTOR ROAD INCLUDING NEW ROADS, AND MAJOR EXTENSIONS OR IMPROVEMENTS TO EXISTING ROAD	CONSTRUCTION OF EIGHT NEW DISTRICT DISTRIBUTOR ROADS (ROADS D1 TO D8)

NOTE: * SUBJECT TO AN ENVIRONMENTAL PERMIT APPLICATION UNDER THIS EIA STUDY.

指定項目參考資料

指定工程項目參考編號	附表2須有環境許可證的指定工程項目		工程部分/經修訂的總綱發展大綱圖參考
指定工程 2 *	部分 I.A.1	屬快速公路、幹道、主要幹路或地區幹路的道路包括新路及對現有道路作重大擴建或改善的部分	興建八條新的地區幹路(D1-D8路)

註: * 將經由是次環境影響評估研究申請環境許可證

Legend:
DP boundary of the interim section of Road D1 (under Contract No. YL/2020/03)

Project Title: Eight New District Distributor Roads (Road D1 to D8) in Hung Shui Kiu New Development Area
工程項目名稱：洪水橋新發展區內八條新的地區幹路（D1-D8 路）

Figure 1: Project Location Plan
圖 1：工程項目位置圖

Environmental Permit No. : EP-528/2017
環境許可證編號 : EP-528/2017

SITE 3–7

SITE 3–8

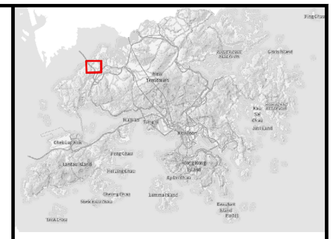
Location of the interim section of Road D1 (under Contract No.YL/2020/03)

N

SAN WAI SEWAGE TREATMENT PLANT

0 20 60 100

1 : 1000 SCALE BAR



Legend:

DP boundary of the interim section of Road D1 (under Contract No.YL/2020/03)

Client

CEDD

CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

Project

CONTRACT NO. YL/2020/03
HUNG SHUI KIU / HA TSUEN
NEW DEVELOPMENT AREA
STAGE 1 WORKS - SITE FORMATION
AND ENGINEERING INFRASTRUCTURE

Drawing Title

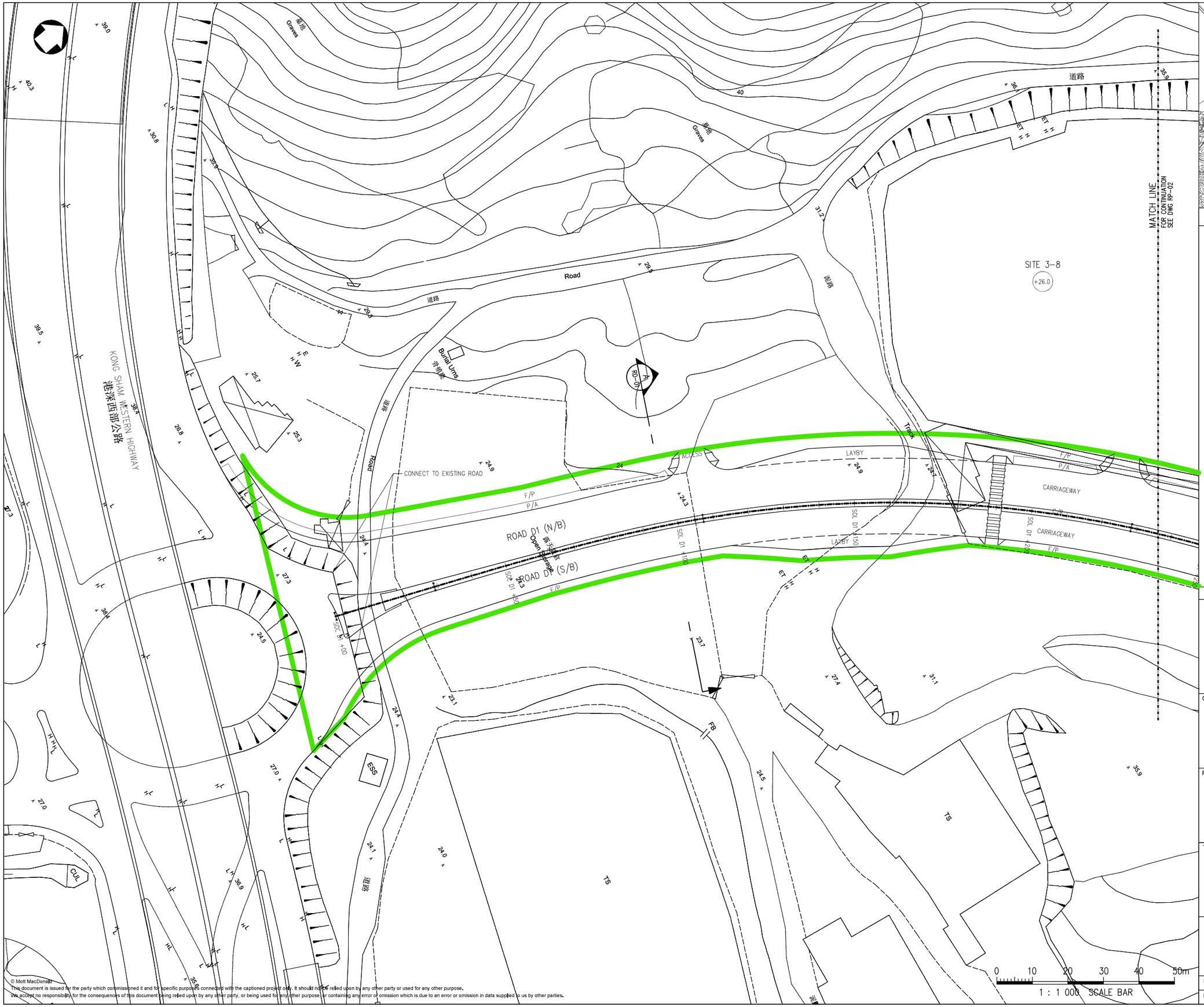
Location Plan of the Interim Section of Road D1

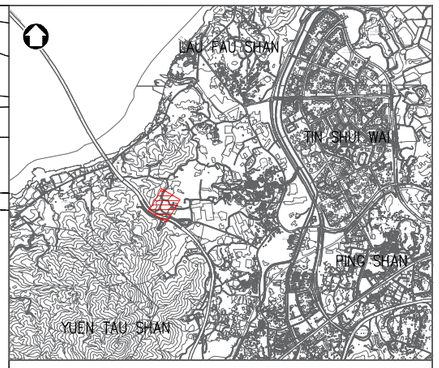
ACUITY sustainability
Member of the Aurecon Group

aurecon

Scale	1000@A1	Date	June 2022	Rev	

Drawing Number LP-01





KEY PLAN

NOTE:

1. THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH DRAWING NO. RP-02.

LEGEND:

	DP boundary of the interim section of Road D1 (under Contract No.YL/2020/03)
F/P	FOOTPATH
P/A	PLANTING AREA
V	VERGE
C/R	CENTRAL RESERVE
	PROPOSED SIGNAL-CONTROLLED PEDESTRIAN CROSSING
	PROPOSED PEDESTRIAN CROSSING
+26.0	PROPOSED SITE FORMATION LEVEL

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Client

CEDD

CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

Project

CONTRACT NO. YL/2020/03
HUNG SHUI KIU / HA TSUEN
NEW DEVELOPMENT AREA
STAGE 1 WORKS - SITE FORMATION AND ENGINEERING INFRASTRUCTURE

Title

ROAD LAYOUT PLAN
(SHEET 1 OF 2)

ACUITY sustainability
Member of the Aurecon Group

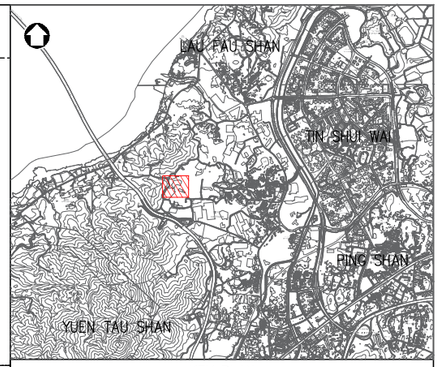
aurecon

Scale 1:1000@A3 Date June 2022 Rev

Drawing Number RP-01

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KAI PAK LING ROAD
CONNECT TO EXISTING ROAD
EXISTING SINGLE TRACK ACCESS ROAD WITH PASSING BAYS
ROAD L51
SOL L51.1 +100
SOL L51 +198
SOL L51 +50
SOL L51 +00
SOL L51.1 +00
SOL L51 +100
SOL L51 +50
SOL D1 +511
SOL D1 +500
SOL D1 +450
SOL D1 +400
SOL D1 +350
SOL D1 +300
SOL D1 +250
ROAD D1 (N/B)
ROAD D1 (S/B)
CARRIAGEWAY
ACCESS
TURNING TEE
SITE 3-6
+23.0
SITE 3-7
+25.0
TS
墓地
Graves
F/P
P/A
V
C/R
ET
H
01
B
RD-01
MATCH LINE
FOR CONTINUATION
SEE DWG RP-01
19.6
28.8
28.5
24.0
26.3
29.7
31.7
34.2
23.0
22.8
20.4
28.7
18.1
19.1
18.2
18.6
18.4
0 10 20 30 40 50m
1 : 1 000 SCALE BAR



KEY PLAN

NOTE:

1. THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH DRAWING NO. RP-01.

LEGEND:

	DP boundary of the interim section of Road D1 (under Contract No.YL/2020/03)
F/P	FOOTPATH
P/A	PLANTING AREA
V	VERGE
C/R	CENTRAL RESERVE
	PROPOSED SIGNAL-CONTROLLED PEDESTRIAN CROSSING
	PROPOSED PEDESTRIAN CROSSING
+26.0	PROPOSED SITE FORMATION LEVEL

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Client

CEDD
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

Project

CONTRACT NO. YL/2020/03
HUNG SHUI KIU / HA TSUEN NEW DEVELOPMENT AREA
STAGE 1 WORKS - SITE FORMATION AND ENGINEERING INFRASTRUCTURE

Title

ROAD LAYOUT PLAN
(SHEET 2 OF 2)

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Scale 1:1000@A3 Date June 2022 Rev

Drawing Number RP-02

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APPENDIX B1 – LOCATION PLAN OF AFFECTED LCR

NORTH

SCALE 1 : 5,000

0 100 200 300m

Location of the interim section of Road D1 under Contract No. YL/2020/03

NORTH

11-23a
11-23d 11-23c 11-23b
11-23g 11-23f 11-23e
11-23i 11-23h
11-23j

KEYPLAN

LEGEND

- 500m Assessment Area Boundary
- Project Boundary
- DP1
- DP2
- DP5
- DP6
- DP12

LCA1 MISCELLANEOUS RURAL FRINGE LANDSCAPE = 413986 SQM

LCA2 MISCELLANEOUS URBAN FRINGE LANDSCAPE = 70215 SQM

LCA3 RESIDENTIAL URBAN LANDSCAPE = 770 SQM

LCA4 UPLAND AND HILLSIDE LANDSCAPE = 4938 SQM

LCA6 RURAL COASTAL PLAIN LANDSCAPE = 4849 SQM

DP boundary of the interim section of Road D1 (under Contract No. YL/2020/03)

AECOM

Agreement No. CE 2/2011 (CE)
Hung Shui Kiu New Development Area Planning and Engineering Study - Investigation

Landscape Character Area Impacts Enlargement Plan 04

SCALE	1:5,000@A3	DATE	AUG 2016
CHECK	AM	DRAWN	PN
JOB No.	60222570	FIGURE 11.23d	REV

APPENDIX B2 – LOCATION PLAN OF AFFECTED LR

NORTH

SCALE 1 : 5,000

0 100 200 300m

Location of the interim section of Road D1 under Contract No. YL/2020/03

181-T1

237A-T1

237A-T2

237C-T1

2.4 3.3 2.4 12.2 2.4 3.3 2.4 12.2 9.7 12.2 9.9 12.2 10.5 12.2 2.8 9.9 12.2 12.2 12.2 12.2 12.2 2.9 10.7 9.12 14.9 3.4 10.6

Note: Buildings, roads and pavement are not considered Landscape Resources and have not been included in the mapping of resources. Figures attempt to formalize boundaries between distinct areas of Landscape Resources for the purpose of impact assessment, and should not be construed as reflecting every single variable on the ground.

NORTH

11-20a 11-20d 11-20c 11-20b 11-20g 11-20f 11-20e 11-20i 11-20h 11-20j

KEYPLAN

LEGEND

- 500m Assessment Area Boundary
- Project Boundary
- DP1
- DP2
- DP5
- DP6
- DP12
- LR2 HILLSIDE WOODLAND = 1468135 SQM
- LR3 HILLSIDE SHRUB & GRASSLAND = 510110 SQM
- LR4 LOW-LYING WOODLAND/PLANTATION = 218,126 SQ.M
- LR5 LOW-LYING SHRUB & GRASSLAND = 368,806 SQ.M
- LR6 VEGETATION ON AGRICULTURAL LAND = 375361 SQM
- LR7 VEGETATION WITHIN RESIDENTIAL DEVELOPMENTS = 69760 SQM
- LR8 VEGETATION WITHIN RURAL RESIDENTIAL = 691936 SQM
- LR9 VEGETATION WITHIN INDUSTRIAL LAND & OPEN STORAGE = 567248 SQM
- LR10 WATER COURSE = 237,365 SQ.M
- LR11 VEGETATION WITHIN URBAN PARK = 32128 SQM
- LR12 VEGETATION ON MODIFIED SLOPES = 45759 SQM
- LR13 VEGETATION ALONG TIN SHUI WAI PROMENADE = 43546 SQM
- LR14 ROADSIDE VEGETATION = 236427 SQM
- LR15 WATER BODY = 30,869 SQ.M
- LR17 MARSH = 6209 SQM
- LR18 IMPORTANT TREE = 66 NOS.
- DP boundary of the interim section of Road D1 (under Contract No. YL/2020/03)

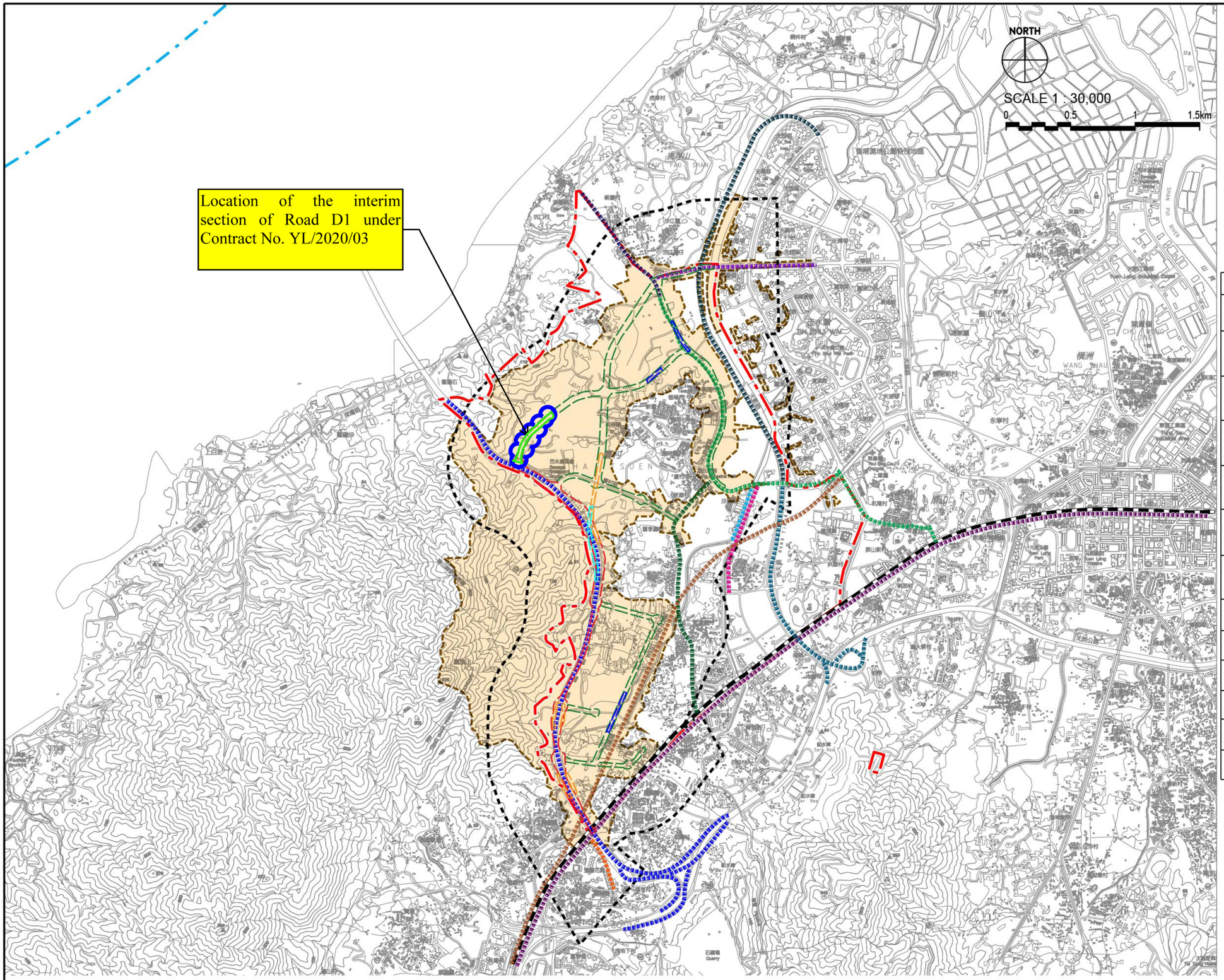
AECOM

Agreement No. CE 2/2011 (CE)
Hung Shui Kiu New Development Area Planning and Engineering Study - Investigation

Landscape Resource Enlargement Plan 04

SCALE	1:5,000@A3	DATE	AUG 2016
CHECK	AM	DRAWN	LW
JOB No.	60222570	FIGURE 11.20d	REV

APPENDIX B3 – LOCATION PLAN OF AFFECTED VSR



LEGEND

- Boundary of Hong Kong SAR
- Project Boundary
- 500m Assessment Area Boundary
- Visual Envelope

Road-related DPs:

- DP1
- DP2
- DP5
- DP6
- DP12

Travelling VSRs	
T1	Motorists along Kong Sham Western Highway
T2	Users of the MTR between Tin Shui Wai Station and Siu Hong Station
T4 & T23	Motorists along Hung Tin Road, Cyclists along Tin Ying Road and Hung Tin Road
T5 & T17	Motorists along Castle Peak Road, Cyclists along Castle Peak Road
T6 & T20	Motorists along Ping Ha Road, Cyclists along Ping Ha Road
T7 & T18	Motorists along Tin Ha Road, Cyclists along Tin Ha Road
T8 & T19	Motorists along Shek Po Road, Cyclists along Shek Po Road
T11	Motorists along Sha Chau Lei Road
T13	Motorists along Lan Fau Shan Road
T16	Passengers on Light Rail System
T23	Cyclists along Tin Ying Road and Hung Tin Road
T30	Motorists on Tin Wah Road
T31	Motorists on Fuk Hang Tsuen Road

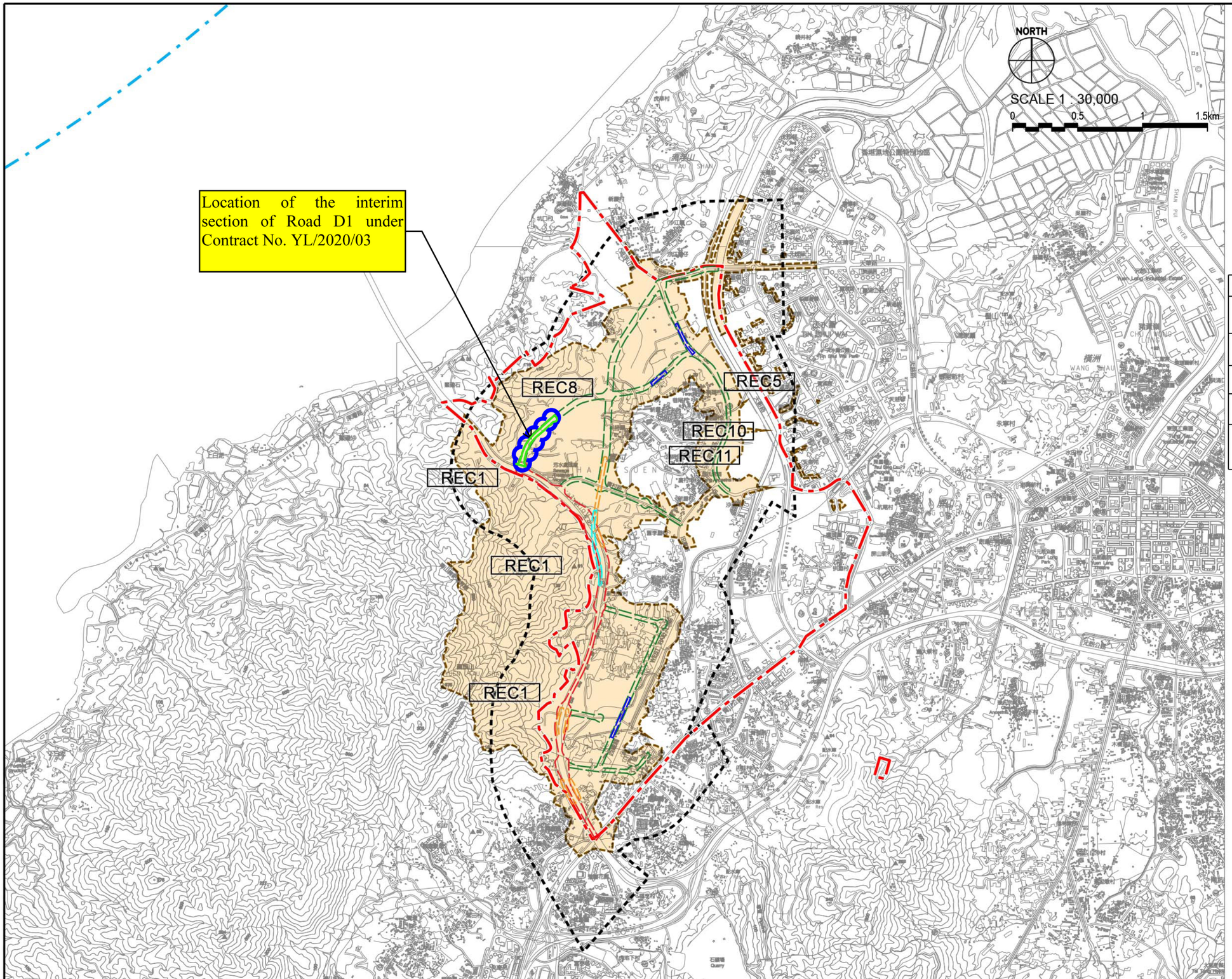
DP boundary of the interim section of Road D1 (under Contract No. YL/2020/03)

AECOM

Agreement No. CE 2/2011 (CE)
Hung Shui Kiu New Development Area Planning and Engineering Study - Investigation

Travelling VSRs in Construction Phase

SCALE	1:30,000@A3	DATE	JUL 2016
CHECK	AM	DRAWN	PN
JOB No.	60222570	FIGURE 11.30a	REV



LEGEND

- Boundary of Hong Kong SAR
- Project Boundary
- 500m Assessment Area Boundary
- Visual Envelope

Road-related DPs:

- DP1
- DP2
- DP5
- DP6
- DP12

Recreational VSRs	
REC1	Hikers along Castle Peak Trails
REC5	Users of Tin Shui Wai Promenade
REC8	Hikers along the Hillside North of the NDA
REC10	Users of Ping Ha Road Garden
REC11	Users of Sik Kong Tsuen Playground and Ha Tsuen Football Field

DP boundary of the interim section of Road D1 (under Contract No. YL/2020/03)

AECOM

Agreement No. CE 2/2011 (CE)
Hung Shui Kiu New Development Area Planning and Engineering Study - Investigation

Recreational VSRs in Construction Phase

SCALE	1:30,000@A3	DATE	JUL 2016
CHECK	AM	DRAWN	PN
JOB No.	60222570	FIGURE 11.28a	REV

APPENDIX C – LANDSCAPE AND VISUAL MITIGATION MEASURES IMPLEMENTATION PLAN

NORTH

SCALE 1 : 5,000

0 100 200 300m

CM1, CM2, CM3, CM5, CM6, CM7, CM8, CM9, CM11, CM13

OM3,OM7

ROAD D1

OM1,OM3,OM7

OM1,OM3,OM6,OM7

CM3,CM11,CM13

OM1,OM3,OM6,OM7

OM1,OM3,OM7

OM1,OM3,OM7

CM3,CM11,CM13

OM1,OM3,OM7

CM11,CM13

NORTH

11-24a 11-24d 11-24c 11-24b 11-24g 11-24f 11-24e 11-24i 11-24h 11-24j

KEYPLAN

LEGEND

- 500m Assessment Area Boundary
- Project Boundary
- DP1
- DP2
- DP5
- DP6
- DP12
- 3m Vertical Barrier
- 4m Vertical Barrier
- 5m Vertical Barrier
- 6m Vertical Barrier
- 7m Vertical Barrier
- 5.5+2.5m at 45° Cantilever
- 6+4.2m at 45° Cantilever

Mitigation Measures

Construction Mitigation (CM)
CM1 – Minimised construction area and contractor's temporary works areas
CM2 – Stripping and storing of topsoil
CM3 – Protection of existing trees
CM4 – Transplantation of existing trees where practical
CM5 – Control of night-time lighting
CM6 – Construction of decorative hoarding around construction works
CM7 – Reduction of construction period to practical minimum
CM8 – Prevention of run-off
CM9 – Phasing of construction stage

CM11 – Minimise disturbance footprints
CM12 – Protection of existing water courses
CM13 – Hydroseeding on modified slopes

Operation Mitigation (OM)
OM1 – Compensatory tree planting where practical
OM3 – Sensitive design of hardscape elements along roadsides
OM4 – Reinstatement of streetscape elements
OM6 – Quality greening along roadside amenity strips
OM7 – Design of street lighting
OM10 – Sensitive design of noise barriers and enclosures
OM14 – Greening of viaduct structures and noise barriers

Note: CM1 - CM14, and other mitigation measures not shown in these figures, are considered best practices throughout the entire NDA and should be implemented to the fullest extent possible.

DP boundary of the interim section of Road D1 (under Contract No. YL/2020/03)

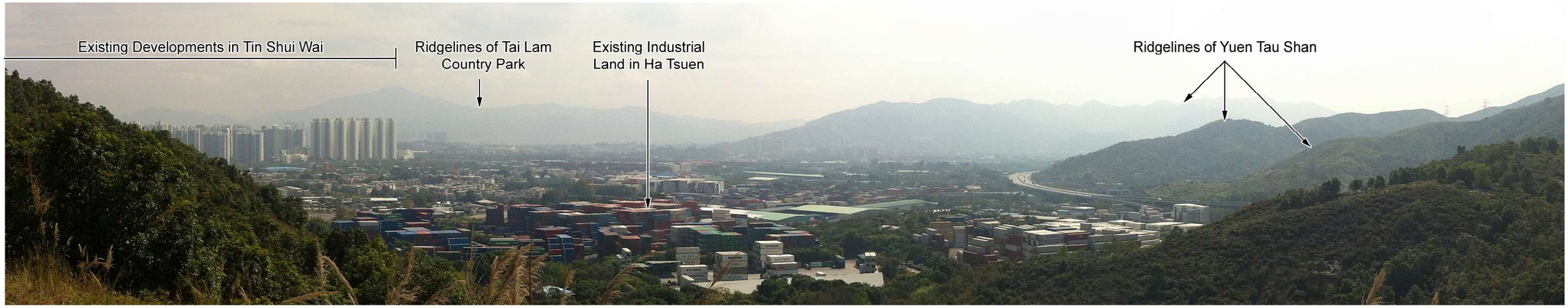
AECOM

Agreement No. CE 2/2011 (CE)
Hung Shui Kiu New Development Area Planning and Engineering Study - Investigation

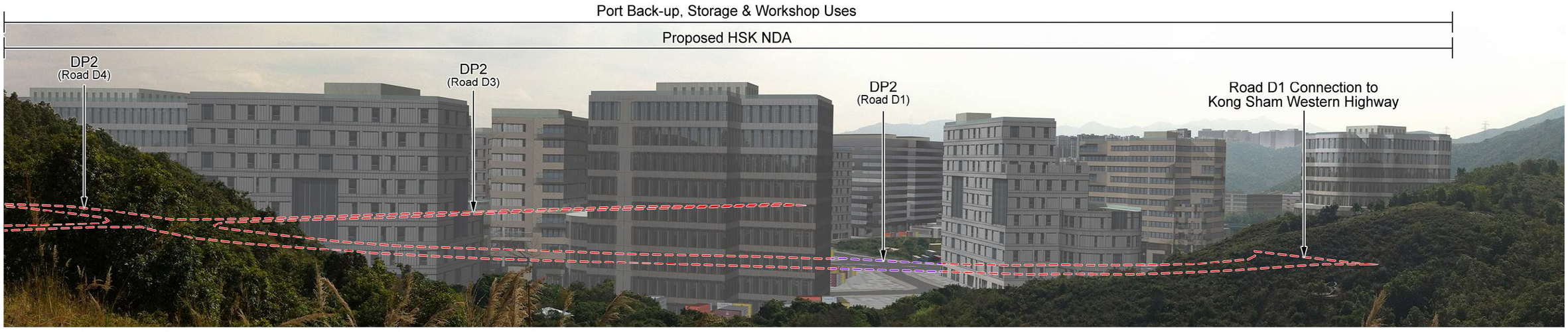
Mitigation Measures Enlargement Plan 04

SCALE	1:5,000@A3	DATE	AUG 2016
CHECK	AM	DRAWN	PN
JOB No.	60222570	FIGURE 11.24d	REV

APPENDIX D – PHOTOMOTAGES



Existing Baseline Conditions

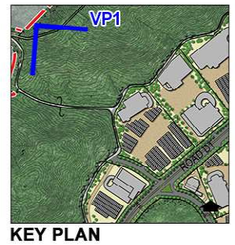


Proposed HSK Development without Mitigation at Day 1 (Operation Phase)

LEGEND (ROADS)

- DP2 - CONSTRUCTION OF EIGHT NEW DISTRIBUTOR ROADS (ROAD D1 TO D8)
- DP ROAD ALIGNMENTS WHERE VIEWS MAY POSSIBLY BE OBSTRUCTED BY STRUCTURES, TOPOGRAPHY OR LANDSCAPE ELEMENTS

Note:
The photomontages illustrating views at Day 1 represent the commencement of Operation Phase for the entire HSK development, with and without mitigation measures.
The photomontages illustrating views at Year 10 of Operation Phase identify anticipated changes in mitigation measures from the Day 1 scenario.
DP road alignments are indicated in coloured dashed lines to improve legibility where views are obstructed by other structures and landscape elements.



KEY PLAN

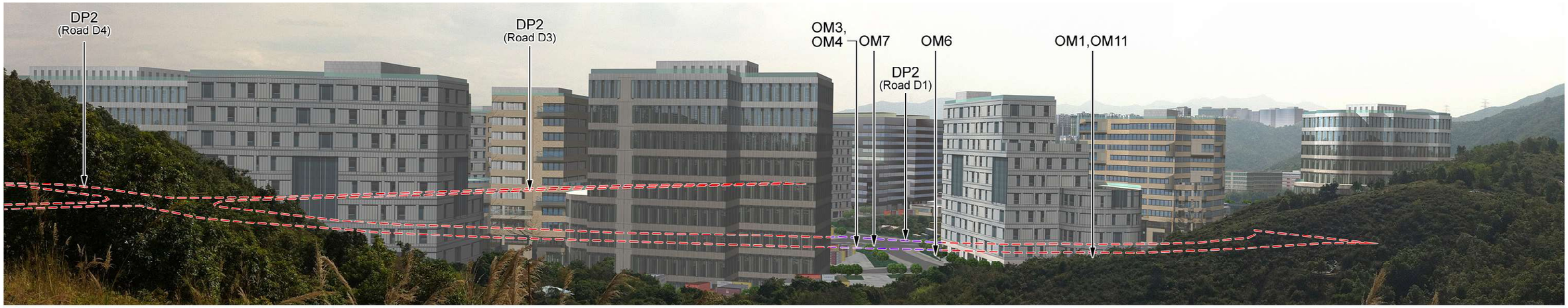
AECOM

Agreement No. CE 2/2011 (CE)
Hung Shui Kiu New Development Area Planning and Engineering Study - Investigation

Photomontage 01 - View from Ngau Hom Shek Hiking Trail

SCALE	N.T.S.	DATE	AUG 2016
CHECK	AM	DRAWN	LW
JOB No.	60222570	FIGURE 11.31a	REV

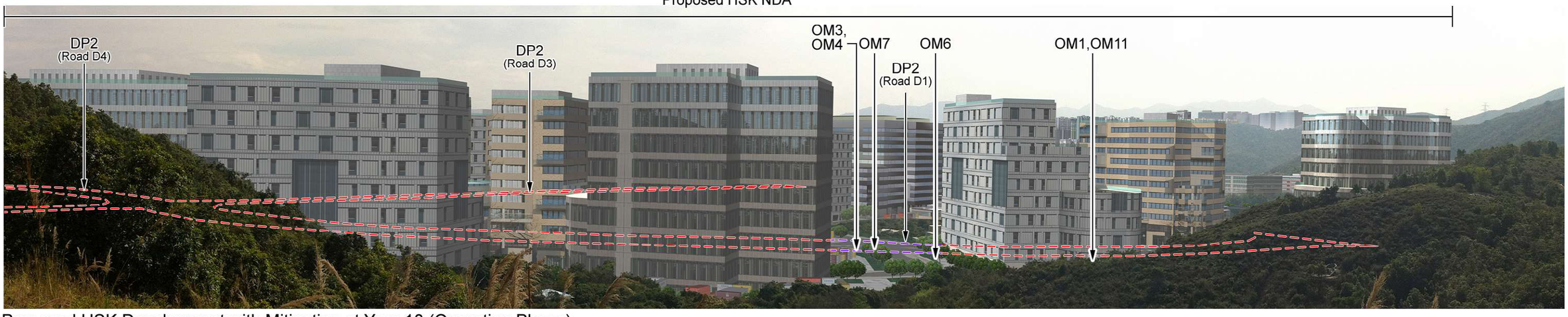
Proposed HSK NDA



Proposed HSK Development with Mitigation at Day 1 (Operation Phase)

Port Back-up, Storage & Workshop Uses

Proposed HSK NDA



Proposed HSK Development with Mitigation at Year 10 (Operation Phase)

LEGEND (ROADS)

- DP2 - CONSTRUCTION OF EIGHT NEW DISTRIBUTOR ROADS (ROAD D1 TO D8)
- DP ROAD ALIGNMENTS WHERE VIEWS MAY POSSIBLY BE OBSTRUCTED BY STRUCTURES, TOPOGRAPHY OR LANDSCAPE ELEMENTS

Mitigation Measures

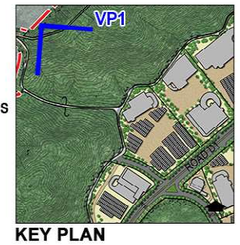
Construction Mitigation (CM)

CM1 - Minimised construction area and contractor's temporary works areas
CM2 - Stripping and storing of topsoil
CM3 - Protection of existing trees
CM4 - Transplantation of existing trees where practical
CM5 - Control of night-time lighting
CM6 - Construction of decorative hoarding around construction works
CM7 - Reduction of construction period to practical minimum
CM8 - Prevention of run-off
CM9 - Phasing of construction stage
CM10 - Advance screen planting
CM11 - Minimise disturbance footprints
CM12 - Protection of existing water courses
CM13 - Hydroseeding on modified slopes
CM14 - Integrate open space network with existing nullah conditions

Operation Mitigation (OM)

OM1 - Compensatory tree planting where practical
OM3 - Sensitive design of hardscape elements along roadsides
OM4 - Reinstatement of streetscape elements
OM6 - Quality greening along roadside amenity strips
OM7 - Design of street lighting
OM10 - Sensitive design of vertical noise barriers and enclosures
OM14 - Greening of viaduct structures and noise barriers

Note: CM1 - CM14, and other mitigation measures not shown in these figures, are considered best practices throughout the entire NDA and should be implemented to the fullest extent possible.



KEY PLAN

AECOM

Agreement No. CE 2/2011 (CE)
Hung Shui Kiu New Development Area Planning and Engineering Study - Investigation

Photomontage 01 - View from Ngau Hom Shek Hiking Trail

SCALE	N.T.S.	DATE	AUG 2016
CHECK	AM	DRAWN	LW
JOB No.	60222570	FIGURE 11.31b	REV

APPENDIX E – TREE SURVEY PLAN

MATCH LINE
FOR CONTINUATION
SEE DWG FIGURE 3.2c

MATCH LINE
FOR CONTINUATION
SEE DWG FIGURE 3.2g

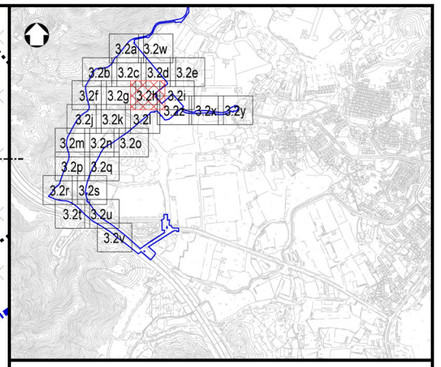
MATCH LINE
FOR CONTINUATION
SEE DWG FIGURE 3.2d

MATCH LINE
FOR CONTINUATION
SEE DWG FIGURE 3.2i

For trees outside the works boundary of Contract No. YL/2020/03 will not be covered in this LVMP.

MATCH LINE
FOR CONTINUATION
SEE DWG FIGURE 3.2j

MATCH LINE
FOR CONTINUATION
SEE DWG FIGURE 3.2l



KEY PLAN

LEGEND:

- PROJECT BOUNDARY
- PROPOSED SITES
- AFFECTED AREA
- PROPOSED ROAD
- 10m FROM ROAD KERB
- DP boundary of the interim section of Road D1 (under Contract No. YL/2020/03)
- +7.5 PROPOSED SITE FORMATION LEVEL (mPD)
- TREE TO BE FELLED OUTSIDE ROAD D1 BOUNDARY
- TREE TO BE RETAINED OUTSIDE ROAD D1 BOUNDARY
- TREE TO BE TRANSPLANTED OUTSIDE ROAD D1 BOUNDARY
- **TREE TO BE FELLED INSIDE ROAD D1 BOUNDARY**

Rev	Date	Drawn	Description	Ch'k'd	App'd
P6	APR 21	LUN	SIXTH ISSUE	ML	SHC
P5	JUN 20	LUN	FIFTH ISSUE	ML	SHC
P4	DEC 19	LUN	FOURTH ISSUE	ML	SHC
P3	MAY 19	LUN	THIRD ISSUE	ML	SHC
P2	DEC 18	LUN	SECOND ISSUE	ML	SHC
P1	NOV 17	MING	FIRST ISSUE	ML	SHC

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Hong Kong
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F +852 2827 1823
W mottmac.com

Client

CEDD
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

Project

AGREEMENT NO. CE 56/2016 (CE)
HUNG SHUI KIU NEW DEVELOPMENT AREA STAGE 1 WORKS - DESIGN AND CONSTRUCTION

Title

TREE SURVEY PLAN - KAI PAK LING ROAD AREA (SHEET 8 OF 26)

Designed	Gav		Eng check	Gav	
Drawn	MMH		Coordination	ML	
Dwg check	Gav		Approved	SHC	
Scale at A1	1:200	Status	PRE	Rev	P6

Drawing Number

FIGURE 3.2h

0 5 10m
1 : 200 SCALE BAR

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MATCH LINE
FOR CONTINUATION
SEE DWG FIGURE 3.2f

MATCH LINE
FOR CONTINUATION
SEE DWG FIGURE 3.2g

MATCH LINE
FOR CONTINUATION
SEE DWG FIGURE 3.2h

MATCH LINE
FOR CONTINUATION
SEE DWG FIGURE 3.2i

MATCH LINE
FOR CONTINUATION
SEE DWG FIGURE 3.2o

B

23.0
22.8
20.4
28.7
LT
ET
TS

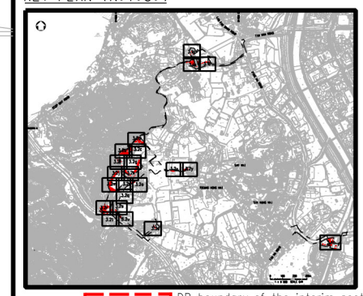
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0 5 10m
1 : 400 SCALE BAR

NOTES:

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS, STANDARD DRAWINGS, THE SPECIFICATIONS AND INSTRUCTIONS ISSUED BY THE ENGINEER.
2. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SPECIFIED.
3. ALL LEVELS ARE IN METRES ABOVE PRINCIPAL DATUM(MPD).
4. COORDINATES ARE BASED ON HONG KONG METRIC GRID(1980).

KEY PLAN (N.T.S.)



LEGEND:

- DP boundary of the interim section of Road (under Contract No. YL/2020/03)
- SITE BOUNDARY
- LAND SALE AREA
- PROPOSED ROADS
- PROPOSED CUT SLOPE
- PROPOSED FILL SLOPE
- PROPOSED RETAINING WALL
- TREE TREATMENT IN APPROVED TPRP
- TREE TO BE FELLED UNDER THIS SUBMISSION
- **TREE TO BE FELLED INSIDE ROAD D1 BOUNDARY**

ORIGINAL MAINTENANCE PARTY OF THE AFFECTED TREE

A1/T004	TREE MAINTAINED BY LANDSD
A1/T004	TREE MAINTAINED BY LCSD
A1/T004	TREE MAINTAINED BY HYD
A1/T004	TREE MAINTAINED BY DSD
A1/T004	TREE MAINTAINED BY CEDD

PROJECT:

CONTRACT NO. YL/2020/03
HUNG SHUI KIU / HA TSUEN
NEW DEVELOPMENT AREA
STAGE 1 WORKS – SITE FORMATION
AND ENGINEERING INFRASTRUCTURE

TITLE:
PLAN OF TREE SURVEY
(BEFORE WORK)
IN AMENDMENTS OF THE
APPROVED TREE PRESERVATION &
REMOVAL PROPOSAL

REVISION NO:	SUBMISSION DATE:
V1	25/07/2023
V2	02/08/2023
V3	12/09/2023
V4	23/09/2023
V5	12/10/2023

PLAN NO.
YL/2020/03/CGC/ATPRP/011

SCALE:
1:400 (A3)

CLIENT:
CEDD
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

CONSULTANT:
MOTT MACDONALD
3/F INTERNATIONAL TRADE TOWER
348 KWUN TONG ROAD
KWUN TONG, KOWLOON
HONG KONG

MAIN-CONTRACTOR:
中国地质工程集团有限公司
CHINA GEO-ENGINEERING CORPORATION

PREPARED BY:
CGC

3.2k

MATCH LINE
FOR CONTINUATION
SEE DWG FIGURE 3.2g

MATCH LINE
FOR CONTINUATION
SEE DWG FIGURE 3.2k

MATCH LINE
FOR CONTINUATION
SEE DWG FIGURE 3.2n

MATCH LINE
FOR CONTINUATION
SEE DWG FIGURE 3.2o

MATCH LINE
FOR CONTINUATION
SEE DWG FIGURE 3.2z

19.1

18.2

18.6

TS

TS

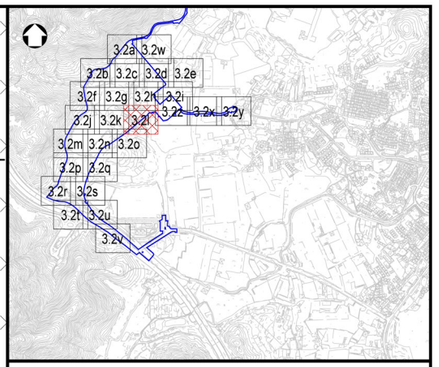
ET

ET

MT-1173
19.37

MT-1173
18.78

MT-1173
18.99



KEY PLAN

LEGEND:

- PROJECT BOUNDARY
- PROPOSED SITES
- AFFECTED AREA
- PROPOSED ROAD
- 10m FROM ROAD KERB
- DP boundary of the interim section of Road D1 (under Contract No. YL/2020/03)
- (+7.5) PROPOSED SITE FORMATION LEVEL (mPD)
- TREE TO BE FELLED OUTSIDE ROAD D1 BOUNDARY
- TREE TO BE RETAINED OUTSIDE ROAD D1 BOUNDARY
- TREE TO BE TRANSPLANTED OUTSIDE ROAD D1 BOUNDARY
- TREE TO BE FELLED INSIDE ROAD D1 BOUNDARY

Rev	Date	Drawn	Description	Ch'k'd	App'd
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P5	JUN 20	LUN	FIFTH ISSUE	ML	SHC
P4	DEC 19	LUN	FOURTH ISSUE	ML	SHC
P3	MAY 19	LUN	THIRD ISSUE	ML	SHC
P2	DEC 18	LUN	SECOND ISSUE	ML	SHC
P1	NOV 17	MING	FIRST ISSUE	ML	SHC

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CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

Project

AGREEMENT NO. CE 56/2016 (CE)
HUNG SHUI KIU NEW DEVELOPMENT AREA STAGE 1 WORKS - DESIGN AND CONSTRUCTION

Title

TREE SURVEY PLAN - KAI PAK LING ROAD AREA (SHEET 12 OF 26)

Designed	Gav		Eng check	Gav	
Drawn	MMH		Coordination	ML	
Dwg check	Gav		Approved	SHC	

Scale at A1: 1:200
Status: PRE
Rev: P6

Drawing Number

FIGURE 3.2l

0 5 10m
1 : 200 SCALE BAR

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MATCH LINE
FOR CONTINUATION
SEE DWG FIGURE 3.2j

MATCH LINE
FOR CONTINUATION
SEE DWG FIGURE 3.2k

MATCH LINE
FOR CONTINUATION
SEE DWG FIGURE 3.2o

MATCH LINE
FOR CONTINUATION
SEE DWG FIGURE 3.2p

MATCH LINE
FOR CONTINUATION
SEE DWG FIGURE 3.2q

TS

Track

+24.7

28.7

35.9

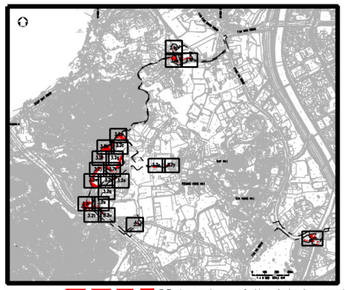
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A1/T1147
A1/T151
MT-804
MT-805
A1/T144

0 5 10m
1 : 400 SCALE BAR

NOTES:

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3. ALL LEVELS ARE IN METRES ABOVE PRINCIPAL DATUM(MPD).
4. COORDINATES ARE BASED ON HONG KONG METRIC GRID(1980).

KEY PLAN (N.T.S.)



LEGEND:

- DP boundary of the interim section of Road (under Contract No. YL/2020/03)
- SITE BOUNDARY
- LAND SALE AREA
- PROPOSED ROADS
- PROPOSED CUT SLOPE
- PROPOSED FILL SLOPE
- PROPOSED RETAINING WALL
- TREE TREATMENT IN APPROVED TPRP
- TREE TO BE FELLED UNDER THIS SUBMISSION
- **TREE TO BE FELLED INSIDE ROAD D1 BOUNDARY**

ORIGINAL MAINTENANCE PARTY OF THE AFFECTED TREE

A1/T004	TREE MAINTAINED BY LANDSD
A1/T004	TREE MAINTAINED BY LCSD
A1/T004	TREE MAINTAINED BY HYD
A1/T004	TREE MAINTAINED BY DSD
A1/T004	TREE MAINTAINED BY CEDD

PROJECT:

CONTRACT NO. YL/2020/03
HUNG SHUI KIU / HA TSUEN
NEW DEVELOPMENT AREA
STAGE 1 WORKS – SITE FORMATION
AND ENGINEERING INFRASTRUCTURE

TITLE:
PLAN OF TREE SURVEY
(BEFORE WORK)
IN AMENDMENTS OF THE
APPROVED TREE PRESERVATION &
REMOVAL PROPOSAL

REVISION NO:	SUBMISSION DATE:
V1	25/07/2023
V2	02/08/2023
V3	12/09/2023
V4	23/09/2023
V5	12/10/2023

PLAN NO.
YL/2020/03/CGC/ATPRP/013

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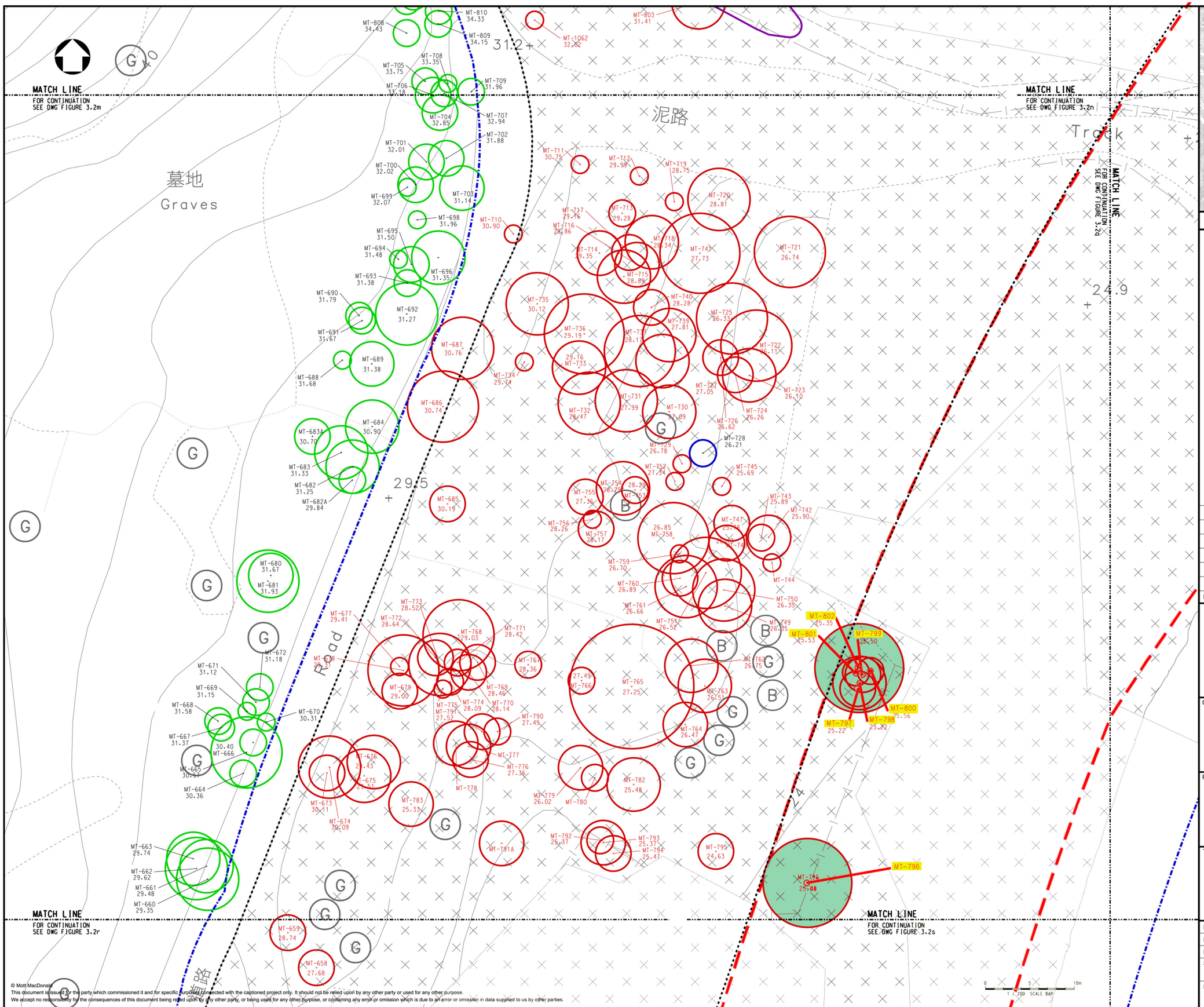
CLIENT:
CEDD
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

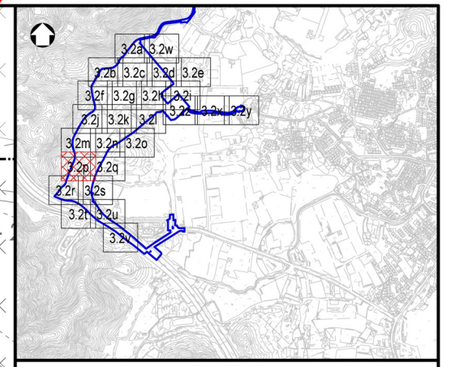
CONSULTANT:
MOTT MACDONALD
3/F INTERNATIONAL TRADE TOWER
348 KWUN TONG ROAD
KWUN TONG, KOWLOON
HONG KONG

MAIN-CONTRACTOR:
中国地质工程集团有限公司
CHINA GEO-ENGINEERING CORPORATION

PREPARED BY:
CGC

3.2n





KEY PLAN

LEGEND:

- PROJECT BOUNDARY
- PROPOSED SITES
- AFFECTED AREA
- PROPOSED ROAD
- 10m FROM ROAD KERB
- DP boundary of the interim section of Road D1 (under Contract No. YL/2020/03)
- +7.5 PROPOSED SITE FORMATION LEVEL (mPD)
- TREE TO BE FELLED OUTSIDE ROAD D1 BOUNDARY
- TREE TO BE RETAINED OUTSIDE ROAD D1 BOUNDARY
- TREE TO BE TRANSPLANTED OUTSIDE ROAD D1 BOUNDARY
- TREE TO BE FELLED INSIDE ROAD D1 BOUNDARY
- MT-800 TREES MAINTAINED BY LANDSD

Rev	Date	Drawn	Description	Ch'k'd	App'd
P6	APR 21	LUN	SIXTH ISSUE	ML	SHC
P5	JUN 20	LUN	FIFTH ISSUE	ML	SHC
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P3	MAY 19	LUN	THIRD ISSUE	ML	SHC
P2	DEC 18	LUN	SECOND ISSUE	ML	SHC
P1	NOV 17	MING	FIRST ISSUE	ML	SHC

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Client

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CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

Project

AGREEMENT NO. CE 56/2016 (CE)
HUNG SHUI KIU NEW DEVELOPMENT AREA STAGE 1 WORKS - DESIGN AND CONSTRUCTION

Title

TREE SURVEY PLAN - KAI PAK LING ROAD AREA (SHEET 16 OF 26)

Designed	Gav		Eng check	Gav	
Drawn	MMH		Coordination	ML	
Dwg check	Gav		Approved	SHC	
Scale at A1	1:200	Status	PRE	Rev	P6

Drawing Number

FIGURE 3.2p

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A1/T199
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A1/T193
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A1/T197
A1/T198
A1/T200
A1/T190
A1/T1147
A1/T151
MT-804
MT-805
A1/T144

MATCH LINE
FOR CONTINUATION
SEE DWG FIGURE 3.2m

MATCH LINE
FOR CONTINUATION
SEE DWG FIGURE 3.2p

MATCH LINE
FOR CONTINUATION
SEE DWG FIGURE 3.2n

MATCH LINE
FOR CONTINUATION
SEE DWG FIGURE 3.2o

MATCH LINE
FOR CONTINUATION
SEE DWG FIGURE 3.2s

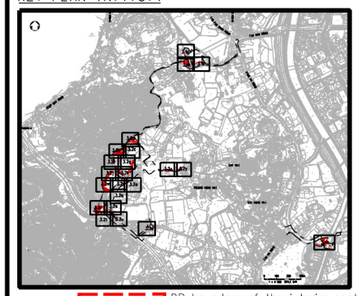
+24.7
+24.9
+31.1
+35.9
+27.4
+23.7
+24.5
TS
ET
FB

0 5 10m
1 : 400 SCALE BAR

NOTES:

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS, STANDARD DRAWINGS, THE SPECIFICATIONS AND INSTRUCTIONS ISSUED BY THE ENGINEER.
2. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SPECIFIED.
3. ALL LEVELS ARE IN METRES ABOVE PRINCIPAL DATUM(MPD).
4. COORDINATES ARE BASED ON HONG KONG METRIC GRID(1980).

KEY PLAN (N.T.S.)



LEGEND:

- DP boundary of the interim section of Road (under Contract No. YL/2020/03)
- SITE BOUNDARY
- LAND SALE AREA
- PROPOSED ROADS
- PROPOSED CUT SLOPE
- PROPOSED FILL SLOPE
- PROPOSED RETAINING WALL
- TREE TREATMENT IN APPROVED TPRP
- TREE TO BE FELLED UNDER THIS SUBMISSION
- **TREE TO BE FELLED INSIDE ROAD D1 BOUNDARY**

ORIGINAL MAINTENANCE PARTY OF THE AFFECTED TREE

A1/T004	TREE MAINTAINED BY LANDSD
A1/T004	TREE MAINTAINED BY LCSD
A1/T004	TREE MAINTAINED BY HYD
A1/T004	TREE MAINTAINED BY DSD
A1/T004	TREE MAINTAINED BY CEDD

PROJECT:

CONTRACT NO. YL/2020/03
HUNG SHUI KIU / HA TSUEN
NEW DEVELOPMENT AREA
STAGE 1 WORKS – SITE FORMATION
AND ENGINEERING INFRASTRUCTURE

TITLE:
PLAN OF TREE SURVEY
(BEFORE WORK)
IN AMENDMENTS OF THE
APPROVED TREE PRESERVATION &
REMOVAL PROPOSAL

REVISION NO:	SUBMISSION DATE:
V1	25/07/2023
V2	02/08/2023
V3	12/09/2023
V4	23/09/2023
V5	12/10/2023

PLAN NO.
YL/2020/03/CGC/ATPRP/015

SCALE:
1:400 (A3)

CLIENT:
CEDD
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

CONSULTANT:
MOTT MACDONALD
3/F INTERNATIONAL TRADE TOWER
348 KWUN TONG ROAD
KWUN TONG, KOWLOON
HONG KONG

MAIN-CONTRACTOR:
中国地质工程集团有限公司
CHINA GEO-ENGINEERING CORPORATION

PREPARED BY:
CGC

3.2q

MATCH LINE
FOR CONTINUATION
SEE DWG FIGURE 3.2r

MATCH LINE
FOR CONTINUATION
SEE DWG FIGURE 3.2s

MATCH LINE
FOR CONTINUATION
SEE DWG FIGURE 3.2t

Burial Urns
骨殖甕

道路

Road

24.9
25.3
24.4
27.3
26.8
38.4
35.9
24.5

A1/T073 A1/T075 A1/T074 A1/T076 A1/T077 A1/T083 A1/T079 A1/T1081 A1/T1080 A1/T078 A1/T1079 A1/T080 A1/T082 A1/T603 A1/T605 A1/T072 A1/T604 A1/T606 A1/T607 A1/T574 A1/T575 A1/T573 A1/T576 A1/T131 A1/T571 A1/T572 A1/T506 A1/T570 A1/T577 A1/T580 A1/T578 A1/T579 A1/T581 A1/T582 A1/T584 A1/T583 A1/T585 A1/T586 A1/T1112 A1/T598 A1/T1111 A1/T587 A1/T590 A1/T591 A1/T592 A1/T1110 A1/T1109 A1/T593 A1/T598 A1/T1071 A1/T594 A1/T595 A1/T1070 A1/T1072 A1/T1073 A1/T1059 A1/T143 A1/T142 A1/T1055 A1/T1053 A1/T1049 A1/T1048 A1/T133 A1/T1054 A1/T134 A1/T135 A1/T136 A1/T138 A1/T140 A1/T139 A1/T137 A1/T1062 A1/T127 A1/T128 A1/T125 A1/T1075 A1/T129 A1/T124 A1/T1076 A1/T126 A1/T1074 A1/T599 A1/T608 A1/T081 A1/T088 A1/T089 A1/T086 A1/T084 A1/T085 A1/T602 A1/T601 A1/T1064 A1/T087 A1/T1065 A1/T094 A1/T099 A1/T098 A1/T600 A1/T1114 A1/T1113 A1/T588 A1/T589 A1/T597 A1/T1100 A1/T095 A1/T598 A1/T096 A1/T596 A1/T097 A1/T1066 A1/T1067 A1/T120 A1/T121 A1/T122 A1/T123 A1/T1069 A1/T1068 A1/T130 A1/T109 A1/T108 A1/T107 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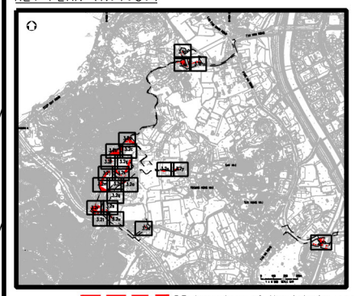
MT-638 MT-637 MT-634 MT-635 MT-641 MT-547 MT-645 MT-633 MT-636 MT-632 MT-639 MT-644 MT-646 MT-642

0 5 10m
1 : 400 SCALE BAR

NOTES:

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS, STANDARD DRAWINGS, THE SPECIFICATIONS AND INSTRUCTIONS ISSUED BY THE ENGINEER.
2. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SPECIFIED.
3. ALL LEVELS ARE IN METRES ABOVE PRINCIPAL DATUM(MPD).
4. COORDINATES ARE BASED ON HONG KONG METRIC GRID(1980).

KEY PLAN (N.T.S.)



LEGEND:

- DP boundary of the interim section of Road (under Contract No. YL/2020/03)
- SITE BOUNDARY
- LAND SALE AREA
- PROPOSED ROADS
- PROPOSED CUT SLOPE
- PROPOSED FILL SLOPE
- PROPOSED RETAINING WALL
- TREE TREATMENT IN APPROVED TPRP
- TREE TO BE FELLED UNDER THIS SUBMISSION
- **TREE TO BE FELLED INSIDE ROAD D1 BOUNDARY**

ORIGINAL MAINTENANCE PARTY OF THE AFFECTED TREE

A1/T004	TREE MAINTAINED BY LANDSD
A1/T004	TREE MAINTAINED BY LCSD
A1/T004	TREE MAINTAINED BY HYD
A1/T004	TREE MAINTAINED BY DSD
A1/T004	TREE MAINTAINED BY CEDD

PROJECT:

CONTRACT NO. YL/2020/03
HUNG SHUI KIU / HA TSUEN
NEW DEVELOPMENT AREA
STAGE 1 WORKS – SITE FORMATION
AND ENGINEERING INFRASTRUCTURE

TITLE:
PLAN OF TREE SURVEY
(BEFORE WORK)
IN AMENDMENTS OF THE
APPROVED TREE PRESERVATION &
REMOVAL PROPOSAL

REVISION NO:	SUBMISSION DATE:
V1	25/07/2023
V2	02/08/2023
V3	12/09/2023
V4	23/09/2023
V5	12/10/2023

PLAN NO.
YL/2020/03/CGC/ATPRP/016

SCALE:
1:400 (A3)

CLIENT:
CEDD
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

CONSULTANT:
MOTT MACDONALD
3/F INTERNATIONAL TRADE TOWER
348 KWUN TONG ROAD
KWUN TONG, KOWLOON
HONG KONG

MAIN-CONTRACTOR:
中国地质工程集团有限公司
CHINA GEO-ENGINEERING CORPORATION

PREPARED BY:
CGC

3.2r

MT-796

MATCH LINE
FOR CONTINUATION
SEE DWG FIGURE 3.2p

MATCH LINE
FOR CONTINUATION
SEE DWG FIGURE 3.2r

MATCH LINE
FOR CONTINUATION
SEE DWG FIGURE 3.2q

MATCH LINE
FOR CONTINUATION
SEE DWG FIGURE 3.2t

MATCH LINE
FOR CONTINUATION
SEE DWG FIGURE 3.2u

露天貨倉
Open Storage

23.7
24.5
24.9
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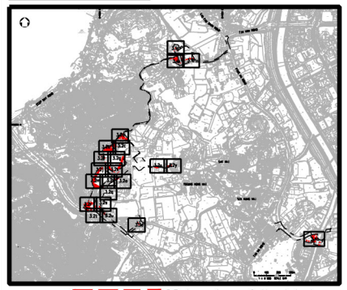
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A1/T1044
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MT-622
MT-617
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MT-595
MT-597
MT-596
MT-598
MT-1401
MT-1402

0 5 10m
1 : 400 SCALE BAR

NOTES:

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS, STANDARD DRAWINGS, THE SPECIFICATIONS AND INSTRUCTIONS ISSUED BY THE ENGINEER.
2. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SPECIFIED.
3. ALL LEVELS ARE IN METRES ABOVE PRINCIPAL DATUM(MPD).
4. COORDINATES ARE BASED ON HONG KONG METRIC GRID(1980).

KEY PLAN (N.T.S.)



LEGEND:

- DP boundary of the interim section of Road (under Contract No. YL/2020/03)
- SITE BOUNDARY
- LAND SALE AREA
- PROPOSED ROADS
- PROPOSED CUT SLOPE
- PROPOSED FILL SLOPE
- TREE TO BE RETAINED INSIDE ROAD D1 BOUNDARY
- PROPOSED RETAINING WALL
- TREE TREATMENT IN APPROVED TPRP
- TREE TO BE FELLED UNDER THIS SUBMISSION
- TREE TO BE REMOVED INSIDE ROAD D1 BOUNDARY

ORIGINAL MAINTENANCE PARTY OF THE AFFECTED TREE

A1/T004	TREE MAINTAINED BY LANDSD
A1/T004	TREE MAINTAINED BY LCSD
A1/T004	TREE MAINTAINED BY HYD
A1/T004	TREE MAINTAINED BY DSD
A1/T004	TREE MAINTAINED BY CEDD

PROJECT:

CONTRACT NO. YL/2020/03
HUNG SHUI KIU / HA TSUEN
NEW DEVELOPMENT AREA
STAGE 1 WORKS – SITE FORMATION
AND ENGINEERING INFRASTRUCTURE

TITLE:
PLAN OF TREE SURVEY
(BEFORE WORK)
IN AMENDMENTS OF THE
APPROVED TREE PRESERVATION &
REMOVAL PROPOSAL

REVISION NO:	SUBMISSION DATE:
V1	25/07/2023
V2	02/08/2023
V3	12/09/2023
V4	23/09/2023
V5	12/10/2023

PLAN NO.
YL/2020/03/CGC/ATPRP/017

SCALE:
1:400 (A3)

CLIENT:
CEDD
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

CONSULTANT:
MOTT MACDONALD
3/F INTERNATIONAL TRADE TOWER
348 KWUN TONG ROAD
KWUN TONG, KOWLOON
HONG KONG

MAIN-CONTRACTOR:
中国地质工程集团有限公司
CHINA GEO-ENGINEERING CORPORATION

PREPARED BY:
CGC

3.2s

APPENDIX F – INDIVIDIAUL TREE ASSESSMENT SCHEDULE

Appendix F - Individual Tree Assessment Schedule in TPRP Rev.4

Tree No.	Figure No.	Species		Measurements			Amenity value	Form	Health condition	Structural condition	Suitability for transplanting		Conservation Status[3]	Recommendation	Within Project Boundary/ To be affected by works (Y/N)	Location of Trees	Department to provide comments on TPRP (New)	Additional Remarks
		Scientific name	Chinese name	height (m)	DBH[1] (mm)	crown spread (m)	(high / medium / low)	(good / fair / poor)			(high / medium / low)	Remarks[2]		(retain / transplant / fell)				
MT-643	3.2r	*Cinnamomum camphora*	樟	5	102	2	low	poor	fair	poor	low	A,F,L,	-	fell	Y	UUGL <10m from kerb	LCSD	on slope, water sprouts, crooked trunk
MT-644	3.2r	*Bombax ceiba*	木棉	8	131	4	low	poor	fair	poor	low	A,F,L,	-	fell	Y	UUGL <10m from kerb	LCSD	on slope, crooked trunk
MT-645	3.2r	*Koelreuteria bipinnata*	複羽葉欒樹	10	216	5	low	poor	fair	poor	low	A,F,L,	-	fell	Y	UUGL <10m from kerb	LCSD	on slope, climbers, codominant branch,included bark
MT-646	3.2r	*Leucaena leucocephala*	銀合歡	10	414	5	low	poor	fair	poor	low	A,F,G,L,	-	fell	Y	UUGL <10m from kerb	LCSD	on slope, codominant trunk, included bark, leaning, multi-trunk
MT-647	3.2r	*Leucaena leucocephala*	銀合歡	11	242	6	low	fair	fair	poor	low	A,F,G,L,	-	fell	Y	UUGL <10m from kerb	LCSD	on slope, exposed root, climbers
MT-650	3.2r	*Leucaena leucocephala*	銀合歡	5	99	3	low	poor	poor	poor	low	A,F,G,	-	fell	Y	UUGL >10m from kerb	LandsD	included bark, climbers, multi trunk
MT-796	3.2p	*Leucaena leucocephala*	銀合歡	4	231	9	low	poor	fair	poor	low	A,F,G,J,	-	fell	Y	UUGL >10m from kerb	LandsD	leaning, low live crown ratio, codominant branch, climbers
MT-797	3.2p	*Leucaena leucocephala*	銀合歡	9	202	4	low	poor	fair	fair	low	A,F,G,J,	-	fell	Y	UUGL >10m from kerb	LandsD	leaning, climbers, broken branch
MT-798	3.2p	*Leucaena leucocephala*	銀合歡	9	272	6	low	poor	fair	fair	low	A,F,G,J,	-	fell	Y	UUGL >10m from kerb	LandsD	codominant trunk, included bark, climbers
MT-799	3.2p	*Leucaena leucocephala*	銀合歡	9	125	4	low	poor	fair	fair	low	A,F,G,J,	-	fell	Y	UUGL >10m from kerb	LandsD	climbers, cooked trunk
MT-800	3.2p	*Leucaena leucocephala*	銀合歡	6	108	3	low	poor	fair	fair	low	A,F,G,J,	-	fell	Y	UUGL >10m from kerb	LandsD	climbers, leaning, broken trunk
MT-801	3.2p	*Leucaena leucocephala*	銀合歡	7	111	3	low	poor	fair	poor	low	A,F,G,J,	-	fell	Y	UUGL >10m from kerb	LandsD	leaning, climbers
MT-802	3.2p	*Leucaena leucocephala*	銀合歡	10	361	10	low	poor	fair	fair	low	A,F,G,M,	-	fell	Y	UUGL >10m from kerb	LandsD	multi-trunk, climbers, codominant branch, imbalanced crown, leaning, broken trunk
MT-803	3.2m	*Leucaena leucocephala*	銀合歡	8	254	6	low	poor	poor	poor	low	A,F,G,J,M,N,	-	fell	Y	UUGL >10m from kerb	LandsD	broken branch, climbers
MT-804	3.2q	*Ficus benjamina*	垂葉榕	9	178	4	low	poor	fair	poor	low	A,F,N,	-	fell	Y	UUGL >10m from kerb	LandsD	restricted root growth, climbers
MT-1401	3.2s	*Macaranga tanarius var. tomentosa*	血桐	6	187	3	low	poor	fair	poor	low	A,F,L,N,	-	retain	Y	UUGL <10m from kerb	LCSD	multi-trunk, on slope, climbers, close to hard structure
MT-1402	3.2t	*Macaranga tanarius var. tomentosa*	血桐	6	189	5	low	poor	fair	poor	low	A,F,L,	-	retain	Y	UUGL <10m from kerb	LCSD	multi-trunk, on slope, climbers, close to chain link fence
MT-1403	3.2r	*Leucaena leucocephala*	銀合歡	5	168	3	low	poor	poor	poor	low	A,F,G,L,	-	fell	Y	UUGL <10m from kerb	LCSD	on slope, multi-trunk, included bark, water sprouts, close to chain link fence, close to other tree
MT-1404	3.2r	*Macaranga tanarius var. tomentosa*	血桐	5	119	4	low	poor	fair	poor	low	A,F,L,	-	retain	Y	UUGL <10m from kerb	LCSD	on slope, multi-trunk, close to chain link fence, close to other tree, crossed branch, imbalancef form

[1] DBH of a tree refers to its diameter at breast height (i.e. measured at 1.3 m above ground level). Measurement of DBH followed AFCD PN No. 2 - *Measurement of Diameter at Breast Height (DBH)*

2 A = low amenity value; B = irrecoverable form after transplanting; C = low survival rate after transplanting; D = very large size; E = with evidence of over-maturity and onset of senescence; F = with poor health, structure or form; G = undesirable species; H = change in exposure; I

3 The IUCN species status were extracted from The IUCN Red List of Threatened Species. Version 2019-3. <www.iucnredlist.org>. Downloaded on 10 December 2019.

Appendix F - Individual Tree Assessment Schedule for Additional Trees TPRP Approved on 18 December, 2023 (Rev.6)

FIGURE NO.	TREE NO.	SPECIES		MEASUREMENTS			Amenity Value	FORM	HEALTH CONDITION	STRUCTURAL CONDITIO	SUITABILITY FOR TRANSPLANTING		CONSERVATION STATUS	WITHIN PROJECT BOUNDARY (Y/N)	TO BE AFFECTED BY WORKS (Y/N)	LOCATION OF TREES		Maintainance department to provide comments on TPRP		RECOMMENDATION	ADDITIONAL REMARKS	Impacts of Works
		SCIENTIFIC NAME	CHINESE NAME	HEIGHT	DBH	SPREAD	(HIGH /MEDIUM /LOW)	GOOD /FAIR /POOR			(high / medium / low)	Remarks				Before	After	Before	After	(RETAIN /TRANSPLANT /FELL)		
3.2R	A1/T133	*Leucaena leucocephala*	銀合歡	7	202	3	low	poor	poor	poor	low	A,	-	Y	Y	UUGL <10m from kerb, Within Road D1	Felled	LCSD	N/A	Fell	lean, water sprouts, climbers	LL
3.2R	A1/T134	*Leucaena leucocephala*	銀合歡	7	165	3	low	poor	fair	poor	low	A,	-	Y	Y	UUGL <10m from kerb,	Felled	LCSD	N/A	Fell	climbers, on slope	LL
3.2R	A1/T135	*Leucaena leucocephala*	銀合歡	7	134	4	low	poor	poor	poor	low	A,	-	Y	Y	UUGL <10m from kerb, Within Road D1	Felled	LCSD	N/A	Fell	climbers, on slope	LL
3.2Q	A1/T144	*Ficus benjamina*	垂葉榕	7	209	4	low	poor	fair	poor	low	A,F,G,	IUCN: Least concern	Y	Y	UUGL >10m from kerb	Felled	LandsD	N/A	Fell	restricted root growth,codominant branch, water sprouts, climbers, planter, near to hard structure	Roadworks
3.2Q	A1/T151	*Ficus benjamina*	垂葉榕	4	160	3	low	poor	fair	poor	low	A,	IUCN: Least concern	Y	Y	UUGL >10m from kerb	Felled	LandsD	N/A	Fell	restricted root growth, codominant trunk, water sprouts	Roadworks
3.2N	A1/T159	*Ficus benjamina*	垂葉榕	7	232	5	low	poor	fair	poor	low	A,F,G,	IUCN: Least concern	Y	Y	UUGL >10m from kerb	Felled	LandsD	N/A	Fell	restricted root growth, codominant branch, water sprouts, climbers, planter, near to hard structure	Roadworks
3.2Q	A1/T190	*Ficus benjamina*	垂葉榕	7	150	4	low	fair	fair	poor	low	A,	IUCN: Least concern	Y	Y	UUGL >10m from kerb	Felled	LandsD	N/A	Fell	hard surface, restructed rooting area, water sprouts	Roadworks
3.2Q	A1/T191	*Ficus benjamina*	垂葉榕	7	114	2	low	fair	fair	poor	low	A,	IUCN: Least concern	Y	Y	UUGL >10m from kerb	Felled	LandsD	N/A	Fell	hard surface, restructed rooting area, water sprouts	Roadworks
3.2Q	A1/T192	*Ficus benjamina*	垂葉榕	7	115	3	low	fair	fair	poor	low	A,	IUCN: Least concern	Y	Y	UUGL >10m from kerb	Felled	LandsD	N/A	Fell	hard surface, restructed rooting area, exposed roots	Roadworks
3.2Q	A1/T193	*Ficus benjamina*	垂葉榕	7	95	3	low	fair	fair	poor	low	A,F,	IUCN: Least concern	Y	Y	UUGL >10m from kerb	Felled	LandsD	N/A	Fell	hard surface, restructed rooting area, exposed roots	Roadworks
3.2Q	A1/T194	*Ficus benjamina*	垂葉榕	7	111	5	low	fair	fair	poor	low	A,	IUCN: Least concern	Y	Y	UUGL >10m from kerb	Felled	LandsD	N/A	Fell	hard surface, restructed rooting area, water sprouts	Roadworks
3.2K	A1/T715	*Ficus microcarpa*	細葉榕	10	700	8	low	fair	fair	fair	low	A,F,	IUCN: Least concern	Y	Y	UUGL >10m from kerb	Felled	LandsD	N/A	Fell	restricted rooting area, exposed root	Roadworks
3.2K	A1/T716	*Ficus microcarpa*	細葉榕	3	100	3	low	fair	fair	fair	low	A,F,	IUCN: Least concern	Y	Y	UUGL >10m from kerb	Felled	LandsD	N/A	Fell	restricted rooting area, exposed root	Roadworks
3.2K	A1/T718	*Ficus microcarpa*	細葉榕	7	95	4	low	fair	fair	fair	low	A,F,	IUCN: Least concern	Y	Y	UUGL >10m from kerb	Felled	LandsD	N/A	Fell	restricted rooting area, exposed root	Site formation works
3.2K	A1/T719	*Ficus microcarpa*	細葉榕	12	556	10	low	fair	fair	fair	low	A,F,	IUCN: Least concern	Y	Y	UUGL >10m from kerb	UUGL >10m from kerb, Within Site 3-7	LandsD	Not necessary	Fell	Multi-branches, water sprouts, restricted rooting area, exposed root	Site formation works
3.2K	A1/T720	*Ficus microcarpa*	細葉榕	7	98	4	low	fair	fair	fair	low	A,F,	IUCN: Least concern	Y	Y	UUGL >10m from kerb	Felled	LandsD	N/A	Fell	dieback, water sprouts, restricted rooting area, exposed root	Roadworks
3.2K	A1/T721	*Ficus microcarpa*	細葉榕	10	585	9	low	fair	fair	fair	low	A,F,G,	IUCN: Least concern	Y	Y	UUGL >10m from kerb	Felled	LandsD	N/A	Fell	dead branch, multitrunk, water sprouts, restricted rooting area, exposed root	Roadworks
3.2K	A1/T722	*Ficus microcarpa*	細葉榕	10	303	8	low	fair	fair	fair	low	A,F,	IUCN: Least concern	Y	Y	UUGL >10m from kerb	Felled	LandsD	N/A	Fell	multitrunk, codominant branch, restricted rooting area, exposed root, on slope	Roadworks
3.2K	A1/T723	*Ficus microcarpa*	細葉榕	10	288	8	low	fair	fair	fair	low	A,F,G,	IUCN: Least concern	Y	Y	UUGL >10m from kerb	Felled	LandsD	N/A	Fell	multitrunk, restricted rooting area, exposed root, on slope	Roadworks
3.2K	A1/T724	*Ficus microcarpa*	細葉榕	10	674	10	low	fair	fair	fair	low	A,F,G,	IUCN: Least concern	Y	Y	UUGL >10m from kerb	Felled	LandsD	N/A	Fell	multitrunk, restricted rooting area, exposed root, on slope	Roadworks
3.2K	A1/T725	*Ficus microcarpa*	細葉榕	10	420	10	low	fair	fair	fair	low	A,F,	IUCN: Least concern	Y	Y	UUGL >10m from kerb	Felled	LandsD	N/A	Fell	multitrunk, restricted rooting area, exposed root, on slope	Roadworks
3.2K	A1/T726	*Ficus microcarpa*	細葉榕	10	389	7	low	fair	fair	fair	low	A,F,G,	IUCN: Least concern	Y	Y	UUGL >10m from kerb	Felled	LandsD	N/A	Fell	multitrunk, restricted rooting area, exposed root, on slope	Roadworks
3.2K	A1/T727	*Ficus microcarpa*	細葉榕	10	274	7	low	fair	fair	fair	low	A,F,	IUCN: Least concern	Y	Y	UUGL >10m from kerb	Felled	LandsD	N/A	Fell	parasitic plant, climbers, dead branch, multitrunk, restricted rooting area, exposed root, on slope	Roadworks
3.2K	A1/T728	*Ficus microcarpa*	細葉榕	10	564	10	low	fair	fair	fair	low	A,F,	IUCN: Least concern	Y	Y	UUGL >10m from kerb	Felled	LandsD	N/A	Fell	multitrunk, restricted rooting area, exposed root, on slope	Roadworks
3.2K	A1/T729	*Ficus microcarpa*	細葉榕	10	720	10	low	fair	fair	fair	low	A,F,	IUCN: Least concern	Y	Y	UUGL >10m from kerb	Felled	LandsD	N/A	Fell	multitrunk, restricted rooting area, exposed root, on slope	Roadworks
3.2K	A1/T804	*Ficus microcarpa*	細葉榕	8	396	6	low	poor	fair	poor	low	A,	IUCN: Least concern	Y	Y	UUGL >10m from kerb	Felled	LandsD	N/A	Fell	water sprouts, codominant trunk, codominant branch, included bark, dieback, restricted rooting area, exposed root	Roadworks
3.2K	A1/T888	*Ficus benjamina*	垂葉榕	5	120	5	low	fair	fair	fair	low	A,F,G,	IUCN: Least concern	Y	Y	UUGL >10m from kerb	Felled	LandsD	N/A	Fell	climbers, codominant branch, close to fence, exposed root	Roadworks
3.2K	A1/T889	*Ficus benjamina*	垂葉榕	5	125	5	low	fair	fair	fair	low	A,F,	IUCN: Least concern	Y	Y	UUGL >10m from kerb	Felled	LandsD	N/A	Fell	codominant trunk, close to fence, codominant branch, exposed root	Roadworks
3.2K	A1/T890	*Ficus benjamina*	垂葉榕	5	95	3	low	fair	fair	fair	low	A,F,G,	IUCN: Least concern	Y	Y	UUGL >10m from kerb	Felled	LandsD	N/A	Fell	codominant branch, climbers, close to fence, exposed root	Roadworks

Appendix F - Individual Tree Assessment Schedule for Additional Trees TPRP Approved on 18 December, 2023 (Rev.6)

FIGURE NO.	TREE NO.	SPECIES		MEASUREMENTS			Amenity Value	FORM	HEALTH CONDITION	STRUCTURAL CONDITIO	SUITABILITY FOR TRANSPLANTING		CONSERVATION STATUS	WITHIN PROJECT BOUNDARY (Y/N)	TO BE AFFECTED BY WORKS (Y/N)	LOCATION OF TREES		Maintainance department to provide comments on TPRP		RECOMMENDATION	ADDITIONAL REMARKS	Impacts of Works
		SCIENTIFIC NAME	CHINESE NAME	HEIGHT	DBH	SPREAD	(HIGH /MEDIUM /LOW)	GOOD /FAIR /POOR			(high / medium / low)	Remarks				Before	After	Before	After	(RETAIN /TRANSPLANT /FELL)		
3.2K	A1/T891	*Ficus benjamina*	垂葉榕	5	120	4	low	fair	fair	fair	low	A,F,G,	IUCN: Least concern	Y	Y	UUGL >10m from kerb	Felled	LandsD	N/A	Fell	codominant branch, climbers, close to fence, exposed root	Roadworks
3.2K	A1/T892	*Ficus benjamina*	垂葉榕	5	130	5	low	fair	fair	fair	low	A,F,G,	IUCN: Least concern	Y	Y	UUGL >10m from kerb	Felled	LandsD	N/A	Fell	codominant branch, close to fence, exposed root	Roadworks
3.2K	A1/T894	*Ficus benjamina*	垂葉榕	5	95	3	low	fair	fair	fair	low	A,F,G,	IUCN: Least concern	Y	Y	UUGL >10m from kerb	Felled	LandsD	N/A	Fell	codominant branch, close to fence, exposed root	Roadworks
3.2K	A1/T895	*Ficus benjamina*	垂葉榕	4	95	3	low	fair	fair	fair	low	A,F,G,	IUCN: Least concern	Y	Y	UUGL >10m from kerb	Felled	LandsD	N/A	Fell	codominant branch, close to fence, exposed root	Roadworks
3.2K	A1/T896	*Ficus benjamina*	垂葉榕	5	122	4	low	fair	fair	fair	low	A,F,G,	IUCN: Least concern	Y	Y	UUGL >10m from kerb	Felled	LandsD	N/A	Fell	codominant trunk, water sprouts, close to fence, exposed root	Roadworks
3.2N	A1/T907	*Ficus benjamina*	垂葉榕	4	150	4	low	fair	fair	fair	low	A,F,G,	IUCN: Least concern	Y	Y	UUGL >10m from kerb	Felled	LandsD	N/A	Fell	water sprouts, climbers, multitrunk, restricted rooting area	Roadworks
3.2N	A1/T908	*Melaleuca cajuputi subsp. cumingiana*	白千層	7	180	2	low	fair	fair	fair	low	A,F,G,	-	Y	Y	UUGL >10m from kerb	Felled	LandsD	N/A	Fell	codominant branch, restricted rooting area	Roadworks
3.2N	A1/T909	*Melaleuca cajuputi subsp. cumingiana*	白千層	5	160	3	low	fair	fair	fair	low	A,F,G,	-	Y	Y	UUGL >10m from kerb	Felled	LandsD	N/A	Fell	leaning, water sprouts, codominant branch, included bark, restricted rooting area	Roadworks
3.2N	A1/T910	*Melaleuca cajuputi subsp. cumingiana*	白千層	4	120	1	low	fair	fair	fair	low	A,F,G,	-	Y	Y	UUGL >10m from kerb	Felled	LandsD	N/A	Fell	leaning, water sprouts, loss main leader, included bark, restricted rooting area	Roadworks
3.2N	A1/T911	*Melaleuca cajuputi subsp. cumingiana*	白千層	3	95	2	low	fair	fair	fair	low	A,F,G,	-	Y	Y	UUGL >10m from kerb	Felled	LandsD	N/A	Fell	water sprouts, exposed dead wood, restricted rooting area	Roadworks
3.2N	A1/T912	*Melaleuca cajuputi subsp. cumingiana*	白千層	3	95	2	low	fair	fair	fair	low	A,F,	-	Y	Y	UUGL >10m from kerb	Felled	LandsD	N/A	Fell	water sprouts, restricted rooting area	Roadworks
3.2K	A1/T913	*Melaleuca cajuputi subsp. cumingiana*	白千層	7	120	1	low	fair	fair	fair	low	A,F,G,	-	Y	Y	UUGL >10m from kerb	Felled	LandsD	N/A	Fell	codominant branch, restricted rooting area	Roadworks
3.2K	A1/T914	*Melaleuca cajuputi subsp. cumingiana*	白千層	8	250	3	low	fair	fair	fair	low	A,F,G,	-	Y	Y	UUGL >10m from kerb	Felled	LandsD	N/A	Fell	bow, leaning, water sprouts, codominant branch, restricted rooting area	Roadworks
3.2K	A1/T915	*Melaleuca cajuputi subsp. cumingiana*	白千層	5	200	3	low	fair	fair	fair	low	A,F,G,	-	Y	Y	UUGL >10m from kerb	Felled	LandsD	N/A	Fell	leaning, water sprouts, codominant branch, restricted rooting area	Roadworks
3.2K	A1/T916	*Carica papaya*	番木瓜	3	150	1	low	fair	fair	fair	low	A,F,G,	-	Y	Y	UUGL >10m from kerb	Felled	LandsD	N/A	Fell	restricted rooting area	Roadworks
3.2K	A1/T917	*Melaleuca cajuputi subsp. cumingiana*	白千層	2	120	1	low	poor	fair	fair	low	A,F,G,	-	Y	Y	UUGL >10m from kerb	Felled	LandsD	N/A	Fell	bow, codominant branch, exposed dead wood, restricted rooting area	Roadworks
3.2K	A1/T918	*Carica papaya*	番木瓜	2	152	3	low	fair	fair	fair	low	A,F,G,	-	Y	Y	UUGL >10m from kerb	Felled	LandsD	N/A	Fell	climbers, restricted rooting area	Roadworks
3.2K	A1/T919	*Melaleuca cajuputi subsp. cumingiana*	白千層	4	144	3	low	fair	fair	fair	low	A,F,	-	Y	Y	UUGL >10m from kerb	Felled	LandsD	N/A	Fell	bow, restricted rooting area	Roadworks
3.2K	A1/T920	*Melaleuca cajuputi subsp. cumingiana*	白千層	7	260	4	low	fair	fair	fair	low	A,F,	-	Y	Y	UUGL >10m from kerb	Felled	LandsD	N/A	Fell	water sprouts, codominant branch, restricted rooting area	Roadworks
3.2K	A1/T921	*Carica papaya*	番木瓜	3	160	3	low	fair	fair	fair	low	A,F,G,	-	Y	Y	UUGL >10m from kerb	Felled	LandsD	N/A	Fell	restricted rooting area	Roadworks
3.2K	A1/T922	*Carica papaya*	番木瓜	2	145	2	low	fair	fair	fair	low	A,F,	-	Y	Y	UUGL >10m from kerb	Felled	LandsD	N/A	Fell	restricted rooting area	Roadworks
3.2R	A1/T1048	*Macaranga tanarius var. tomentosa*	血桐	7	95	4	low	fair	fair	fair	low	A,	-	Y	Y	UUGL >10m from kerb	Felled	LCSD	N/A	Fell	on slope	Roadworks
3.2Q	A1/T1147	*Ficus benjamina*	垂葉榕	6	105	3						A,	IUCN: Least concern	Y	Y	UUGL >10m from kerb	Felled	LandsD	N/A	Fell		Roadworks
3.2S	A1/T1049	*Leucaena leucocephala*	銀合歡	8	110	6	low	poor	fair	poor	low	A,	-	Y	Y	UUGL <10m from kerb, Within Road D1	UUGL <10m from kerb, Within Road D1	LCSD	ot necessar	Fell	leaning, on slope, uproot, water sprouts, climbers	Roadworks
3.2S	MT-605	*Dead tree*	死樹	4	137	2	-	-	-	-	-	-	-	Y	Y	UUGL <10m from kerb	Felled	LCSD	N/A	Fell	Dead tree	DT
3.2S	MT-622	*Leucaena leucocephala*	銀合歡	4	156	3	low	poor	fair	poor	low	A,F,G,	-	Y	Y	UUGL <10m from kerb	Felled	LCSD	N/A	Fell	on slope, codominant trunk, codominant branch, included bark, climbers, leaning	LL
3.2S	MT-627	*Leucaena leucocephala*	銀合歡	7	153	5	low	poor	fair	poor	low	A,F,G,	-	Y	Y	UUGL <10m from kerb	Felled	LCSD	N/A	Fell	on slope, watersrpout, leaning	LL
3.2S	MT-629	*Leucaena leucocephala*	銀合歡	8	274	5	low	poor	poor	poor	low	A,F,G,	-	Y	Y	UUGL <10m from kerb	Felled	LCSD	N/A	Fell	open wound on main trunk, on slope, broken trunk	LL
3.2S	MT-630	*Leucaena leucocephala*	銀合歡	8	231	6	low	poor	poor	poor	low	A,F,G,	-	Y	Y	UUGL <10m from kerb	Felled	LCSD	N/A	Fell	on slope, watersrpout, codominant trunk, broken trunk	LL
3.2S	MT-631	*Macaranga tanarius var. tomentosa*	血桐	5	174	4	low	poor	poor	poor	low	A,F,G,	-	Y	Y	UUGL <10m from kerb	Felled	LCSD	N/A	Fell	codominant trunk, included bark, hangers, on slope, hard prune	Roadworks
3.2S	MT-632	*Leucaena leucocephala*	銀合歡	5	127	4	low	poor	fair	poor	low	A,F,G,	-	Y	Y	UUGL <10m from kerb	Felled	LCSD	N/A	Fell	on slope, imbalanced crown, dead branches	LL
3.2S	MT-633	*Leucaena leucocephala*	銀合歡	8	152	5	low	poor	fair	poor	low	A,F,G,	-	Y	Y	UUGL <10m from kerb	Felled	LCSD	N/A	Fell	codominant trunk, included bark, on slope, broken branch	LL
3.2S	MT-634	*Leucaena leucocephala*	銀合歡	5	236	5	low	poor	poor	poor	low	A,F,G,	-	Y	Y	UUGL <10m from kerb	Felled	LCSD	N/A	Fell	on slope, leaning, hard prune	LL
3.2S	MT-635	*Leucaena leucocephala*	銀合歡	8	204	8	low	poor	poor	poor	low	A,F,G,	-	Y	Y	UUGL <10m from kerb	Felled	LCSD	N/A	Fell	codominant trunk, included bark, on slope, broken trunk	LL

Appendix F - Individual Tree Assessment Schedule for Additional Trees TPRP Approved on 18 December, 2023 (Rev.6)

FIGURE NO.	TREE NO.	SPECIES		MEASUREMENTS			Amenity Value	FORM	HEALTH CONDITION	STRUCTURAL CONDITION	SUITABILITY FOR TRANSPLANTING		CONSERVATION STATUS	WITHIN PROJECT BOUNDARY (Y/N)	TO BE AFFECTED BY WORKS (Y/N)	LOCATION OF TREES		Maintainance department to provide comments on TPRP		RECOMMENDATION	ADDITIONAL REMARKS	Impacts of Works
		SCIENTIFIC NAME	CHINESE NAME	HEIGHT	DBH	SPREAD	(HIGH /MEDIUM /LOW)	GOOD /FAIR /POOR			(high / medium / low)	Remarks				Before	After	Before	After	(RETAIN /TRANSPLANT /FELL)		
3.2S	MT-636	*Leucaena leucocephala*	銀合歡	5	121	3	low	poor	poor	poor	low	A,F,G,	-	Y	Y	UUGL <10m from kerb	Felled	LCSD	N/A	Fell	water sprouts, on slope	LL
3.2S	MT-637	*Leucaena leucocephala*	銀合歡	4	134	2	low	poor	fair	poor	low	A,F,G,	-	Y	Y	UUGL <10m from kerb	Felled	LCSD	N/A	Fell	on slope, hard prune, climbers	LL
3.2S	MT-638	*Leucaena leucocephala*	銀合歡	10	347	8	low	poor	fair	poor	low	A,F,G,	-	Y	Y	UUGL <10m from kerb	Felled	LCSD	N/A	Fell	codominant trunk, included bark, hangers, broken trunk, on slope, climbers	LL
3.2R	MT-639	*Leucaena leucocephala*	銀合歡	12	307	8	low	poor	poor	poor	low	A,F,G,	-	Y	Y	UUGL <10m from kerb, Within Road D1	Felled	LCSD	N/A	Fell	on slope, imbalanced crown, broken branch, codominant branch	LL
3.2S	MT-640	*Leucaena leucocephala*	銀合歡	1	98	1	low	poor	poor	poor	low	A,F,G,	-	Y	Y	UUGL <10m from kerb, Within Road D1	Felled	LCSD	N/A	Fell	on slope, leaning, uproot, climbers	LL
3.2R	MT-641	*Cinnamomum camphora*	樟	5	144	3	low	fair	fair	poor	low	A,F,G,	-	Y	Y	UUGL <10m from kerb, Within Road D1	Felled	LCSD	N/A	Fell	on slope, climbers, improper cabling	Roadworks

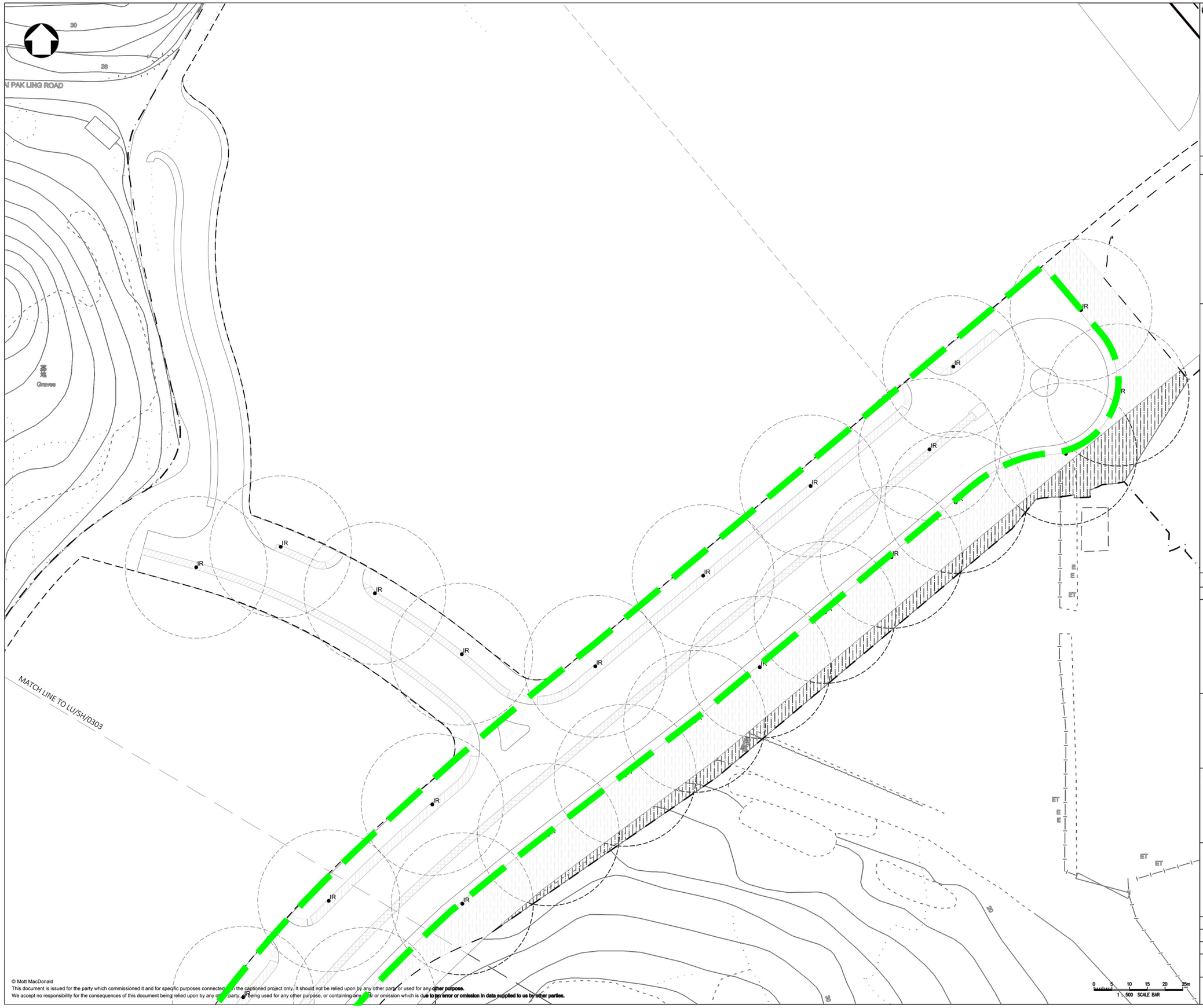
1 DBH of a tree refers to its diameter at breast height (i.e. measured at 1.3 m above ground level). Measurement of DBH followed

2 A = low amenity value; B = irrecoverable form after transplanting; C = low survival rate after transplanting; D = very large size; E = with evidence of over-maturity and onset of senescence; F = with poor health, structure or form; G = undesirable species; H = change in exposure; I = no sufficient available space for Tree Protection Zone; J = limited access by necessary equipment; K = low cost-effectiveness; L = on sloping ground; M = very close to another tree; N = very close to hard structures; O = girdling roots

3 The IUCN species status were extracted from The IUCN Red List of Threatened Species. Version 2019-3. <www.iucnredlist.org>. Downloaded on 10 December 2019.

4 LL = *Leucaena leucocephala*, DT = Dead Tree

APPENDIX G – HYDROSEEDING PLAN





KEY PLAN (1:25000)

LEGEND

- SITE BOUNDARY
- PROPOSED SITE
- +43.0 PROPOSED LEVELS
- IRRIGATION POINT WITH 20M EXTENT
- SOILING FOR TREES 1200MM DEPTH MIN.
- SOILING FOR SHRUBS 600MM DEPTH MIN.
- SOILING FOR HYDROSEEDING 300MM DEPTH MIN.
- DP boundary of the interim section of Road D1 (under Contract No. YL/2020/03)

GENERAL NOTES

- FOR GENERAL NOTES, REFER TO DRAWING NO. 380288/LU/SH/0001.
- THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH DRAWING NOS. 380288/LU/SH/0301 AND 0303.

Rev	Date	Drawn	Description	Ch'k'd	App'd
A	NOV 21	FY	FOR CONSTRUCTION	CJF	CJF

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Project

CONTRACT NO. YL/2020/03
HUNG SHUI KIU / HA TSUEN NEW DEVELOPMENT AREA
STAGE 1 WORKS - SITE FORMATION AND ENGINEERING INFRASTRUCTURE

Title

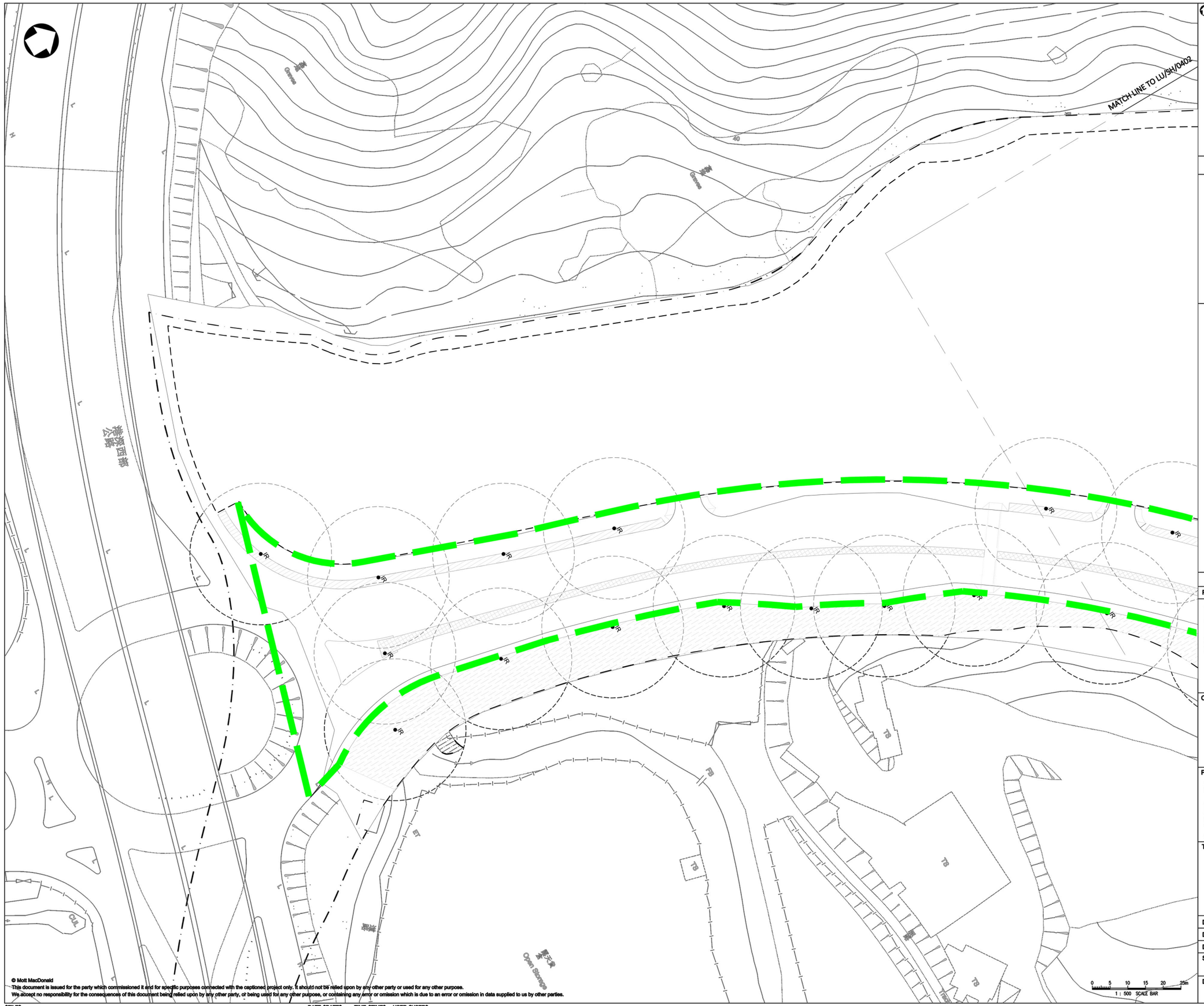
SOILING AND IRRAGATION PLAN - SHEET 2 OF 3

Designed	FY		Eng check	CJF	
Drawn	WC		Coordination	SL	
Dwg check	YK		Approved	CJF	
Scale at A1	1:500	Status	CON	Rev	A

Drawing Number

380288/LU/SH/0302

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KEY PLAN (1:25000)

LEGEND

- SITE BOUNDARY
- PROPOSED SITE
- +43.0 PROPOSED LEVELS
- IRRIGATION POINT WITH 20M EXTENT
- SOILING FOR TREES 1200MM DEPTH MIN.
- SOILING FOR SHRUBS 600MM DEPTH MIN.
- SOILING FOR HYDROSEEDING 300MM DEPTH MIN.
- DP boundary of the interim section of Road D1 (under Contract No. YL/2020/03)

GENERAL NOTES

- FOR GENERAL NOTES, REFER TO DRAWING NO. 380288/LU/SH/0001.
- THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH DRAWING NOS. 38028/LU/SH/0301 AND 0302.

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A	NOV 21	FY	FOR CONSTRUCTION	CJF	CJF

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Project

CONTRACT NO. YL/2020/03
HUNG SHUI KIU / HA TSUEN NEW DEVELOPMENT AREA
STAGE 1 WORKS - SITE FORMATION AND ENGINEERING INFRASTRUCTURE

Title

SOILING AND IRRAGATION PLAN - SHEET 3 OF 3

Designed	FY		Eng check	CJF	
Drawn	WC		Coordination	SL	
Dwg check	YK		Approved	CJF	

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Status: CON
Rev: A

Drawing Number: 380288/LU/SH/0303

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$FILE$ DATE: $DATE$ TIME: $TIME$ USER: $USER$

APPENDIX H – TREE AND SHRUBS PLANTING PLAN

Compensation trees outside the interim section of Road D1

Road L53

Road L54

KAI PAK LING ROAD

FUNG KONG SHUEN ROAD

Ramp

Open Storage

露天貨倉

HORTICULTURAL MAINTENANCE PLAN

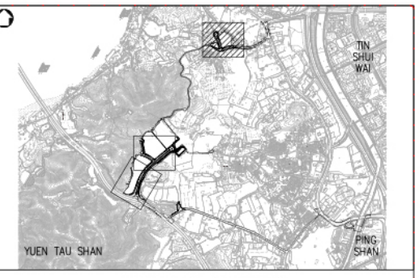
ESTABLISHMENT PERIOD			MONTHS												
ITEM	MAINTENANCE OPERATION	FREQUENCY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	REMARKS
1.1	WATERING	28D DAYS													
1.2	LITTER COLLECTION	Daily													
1.3	WEED CONTROL	16/ year	1	1	1	1	2	2	2	2	1	1	1	1	
1.4	PRUNING OF SHRUBS	ONCE/MONTH	1	1	1	1	1	1	1	1	1	1	1	1	
1.5	PRUNING OF COMPENSATORY TREES	TWICE/YEAR					1						1		
1.6	FERTILISER APPLICATION	TWICE/YEAR			1						1	1			
1.7	TOPPING-UP MULCH	TWICE/YEAR			1						1	1			
1.8	PEST CONTROL	AS REQUIRED													
1.9	REPLACEMENT PLANTING - PERMANENT PLANTERS	AS REQUIRED WITHIN 14 DAYS													
1.10	TREE SUPPORT INSPECTION AND ADJUSTMENT	ONCE/MONTH	1	1	1	1	1	1	1	1	1	1	1	1	
1.11	CHECKING AFTER EXCEPTIONAL WEATHER	AS REQUIRED													
1.12	GRASS CUTTING	15/YEAR	1	1	1	1	2	2	2	1	2	1	1	1	
1.13	JOINT MAINTENANCE INSPECTION (LANDSCAPE ARCHITECT, SOFT LANDSCAPE CONTRACTOR, MANAGEMENT TEAM, LOT OWNER)	ONCE/MONTH	1	1	1	1	1	1	1	1	1	1	1	1	
1.14	TREE RISK ASSESSMENT IN ACCORDANCE WITH DEVB GUIDELINES	ONCE/YEAR				1									

Compensation Tree Planting Schedule Inside the Interim Section of Road D1

CODE	BOTANICAL NAME	CHINESE NAME	TREE SIZE	GIRTH (MM)	CROWN SPREAD (MM)	OVERALL HEIGHT (MM)	LIVE CROWN RATIO (%)	SPACING (MM)	NO. OF TREES
PROPOSED AMENITY TREE PLANTING									
Apd	Aporosa dioica	銀柴	Heavy Standard	314	3000	6000	40	5000	3
Brt	Bridelia tomentosa	土蜜樹	Heavy Standard	314	3000	6000	40	5000	4
Elc	Elaeocarpus chinensis	中華杜英	Heavy Standard	314	3000	6000	40	5000	5
Irm	Ilex rotunda var. microcarpa	小果鐵冬青	Heavy Standard	314	3000	6000	40	5000	6

Compensation Tree Planting Schedule Outside the Interim Section of Road D1

CODE	BOTANICAL NAME	CHINESE NAME	TREE SIZE	GIRTH (MM)	CROWN SPREAD (MM)	OVERALL HEIGHT (MM)	LIVE CROWN RATIO (%)	SPACING (MM)	NO. OF TREES
PROPOSED AMENITY TREE PLANTING									
Apd	Aporosa dioica	銀柴	Heavy Standard	314	3000	6000	40	5000	9
Brt	Bridelia tomentosa	土蜜樹	Heavy Standard	314	3000	6000	40	5000	8
Elc	Elaeocarpus chinensis	中華杜英	Heavy Standard	314	3000	6000	40	5000	7
Irm	Ilex rotunda var. microcarpa	小果鐵冬青	Heavy Standard	314	3000	6000	40	5000	14



KEY PLAN (1:25000)

LEGEND

- SITE BOUNDARY
- PROPOSED SITE
- +43.0 PROPOSED LEVELS
- EXISTING TREE TO BE RETAINED
- TRANSPLANTED TREES
- PROPOSED AMENITY TREE PLANTING
- Apd / 2 SPECIES CODE / NO. OF PLANTS

GENERAL NOTES

- AMENITY TREES (HEAVY STANDARD SPECIMENS) ARE PROPOSED FOR ROADSIDE AREAS. THE SELECTED SPECIES WILL INCLUDE TREES SUCH AS APOROSA DIOICA, BRIDELIA TOMENTOSA, ELAEOCARPUS CHINENSIS AND ILEX ROTUNDA VAR. MICROCARPA.
- EXISTING TREES PRESENT WITHIN THE SITE BOUNDARY WHICH ARE UNAFFECTED BY THE WORKS SHALL BE RETAINED AND DISTURBANCE SHOULD BE AVOIDED BY THE PROPOSED PLANTING WORKS.
- THE PROPOSALS FOR THE COMPENSATORY TREE PLANTING FOR THE ACCESS ROADS WILL BE COMPLETED ONCE THE ENGINEERING SCHEME IS FINALIZED.
- THE SPECIFICATIONS FOR PRE-PLANTING AND PLANTING WORKS WILL FOLLOW THE GENERAL SPECIFICATION FOR CIVIL ENGINEERING WORKS (2006) SECTION 3-LANDSCAPE SOFTWORKS AND ESTABLISHMENT WORKS.
- THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH DRAWING NOS. 38028/LU/SH/SK0402 TO SK0403.

Rev	Date	Drawn	Description	Ch'k'd	App'd
1	JUN 21	FY	GENERAL REVISION	CJF	CJF

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Project

CONTRACT NO. YL/2020/03
HUNG SHUI KIU / HA TSUEN
NEW DEVELOPMENT AREA
STAGE 1 WORKS - SITE FORMATION AND ENGINEERING INFRASTRUCTURE

Title

COMPENSATORY TREE PLANTING PLAN AND SCHEDULE
-SHEET 1 OF 3

Designed	FY		Eng check	CJF	
Drawn	WC		Coordination	SL	
Dwg check	YK		Approved	CJF	

Scale at A1	Status	Rev
1:500	-	1

Drawing Number

380288/LU/SH/SK0401

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1 : 500 SCALE BAR

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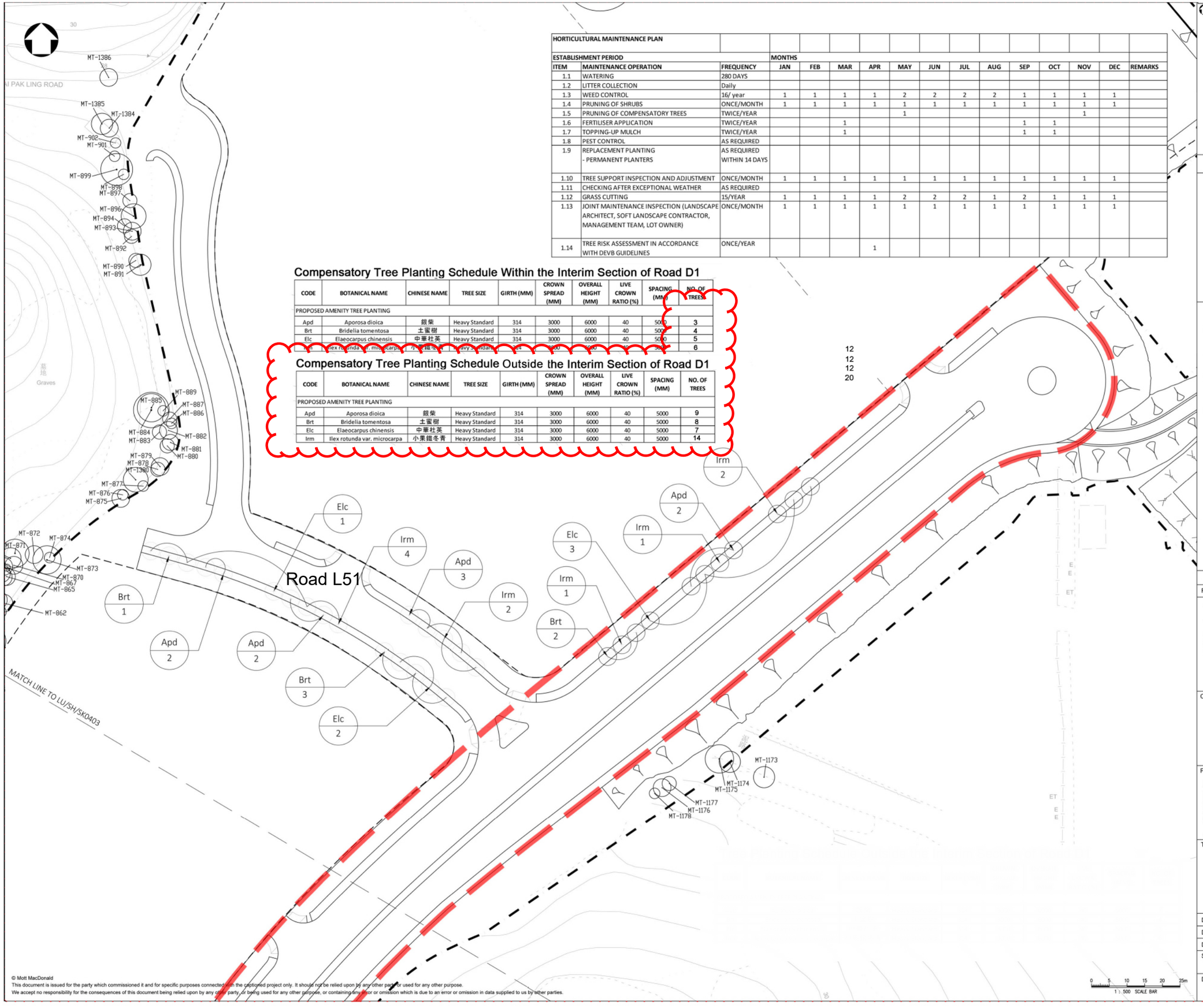
HORTICULTURAL MAINTENANCE PLAN															
ESTABLISHMENT PERIOD			MONTHS												
ITEM	MAINTENANCE OPERATION	FREQUENCY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	REMARKS
1.1	WATERING	280 DAYS													
1.2	LITTER COLLECTION	Daily													
1.3	WEED CONTROL	16/ year	1	1	1	1	2	2	2	2	1	1	1	1	
1.4	PRUNING OF SHRUBS	ONCE/MONTH	1	1	1	1	1	1	1	1	1	1	1	1	
1.5	PRUNING OF COMPENSATORY TREES	TWICE/YEAR					1						1		
1.6	FERTILISER APPLICATION	TWICE/YEAR			1						1	1			
1.7	TOPPING-UP MULCH	TWICE/YEAR			1						1	1			
1.8	PEST CONTROL	AS REQUIRED													
1.9	REPLACEMENT PLANTING - PERMANENT PLANTERS	AS REQUIRED WITHIN 14 DAYS													
1.10	TREE SUPPORT INSPECTION AND ADJUSTMENT	ONCE/MONTH	1	1	1	1	1	1	1	1	1	1	1	1	
1.11	CHECKING AFTER EXCEPTIONAL WEATHER	AS REQUIRED													
1.12	GRASS CUTTING	15/YEAR	1	1	1	1	2	2	2	1	2	1	1	1	
1.13	JOINT MAINTENANCE INSPECTION (LANDSCAPE ARCHITECT, SOFT LANDSCAPE CONTRACTOR, MANAGEMENT TEAM, LOT OWNER)	ONCE/MONTH	1	1	1	1	1	1	1	1	1	1	1	1	
1.14	TREE RISK ASSESSMENT IN ACCORDANCE WITH DEVB GUIDELINES	ONCE/YEAR				1									

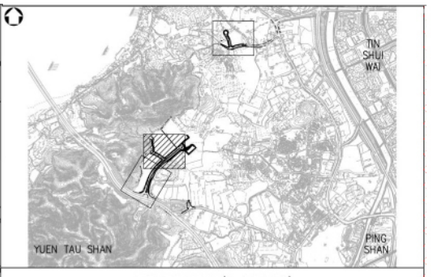
Compensatory Tree Planting Schedule Within the Interim Section of Road D1

CODE	BOTANICAL NAME	CHINESE NAME	TREE SIZE	GIRTH (MM)	CROWN SPREAD (MM)	OVERALL HEIGHT (MM)	LIVE CROWN RATIO (%)	SPACING (MM)	NO. OF TREES
PROPOSED AMENITY TREE PLANTING									
Apd	Aporosa dioica	銀柴	Heavy Standard	314	3000	6000	40	5000	3
Brt	Bridelia tomentosa	土蜜樹	Heavy Standard	314	3000	6000	40	5000	4
Elc	Elaeocarpus chinensis	中華杜英	Heavy Standard	314	3000	6000	40	5000	5
Irm	Ilex rotunda var. microcarpa	小果鐵冬青	Heavy Standard	314	3000	6000	40	5000	6

Compensatory Tree Planting Schedule Outside the Interim Section of Road D1

CODE	BOTANICAL NAME	CHINESE NAME	TREE SIZE	GIRTH (MM)	CROWN SPREAD (MM)	OVERALL HEIGHT (MM)	LIVE CROWN RATIO (%)	SPACING (MM)	NO. OF TREES
PROPOSED AMENITY TREE PLANTING									
Apd	Aporosa dioica	銀柴	Heavy Standard	314	3000	6000	40	5000	9
Brt	Bridelia tomentosa	土蜜樹	Heavy Standard	314	3000	6000	40	5000	8
Elc	Elaeocarpus chinensis	中華杜英	Heavy Standard	314	3000	6000	40	5000	7
Irm	Ilex rotunda var. microcarpa	小果鐵冬青	Heavy Standard	314	3000	6000	40	5000	14





KEY PLAN (1: 25000)

LEGEND

- SITE BOUNDARY
- PROPOSED SITE
- +43.0 PROPOSED LEVELS
- EXISTING TREE TO BE RETAINED
- TRANSPLANTED TREES
- PROPOSED AMENITY TREE PLANTING
- Apd / 2 SPECIES CODE / NO. OF PLANTS
- Works boundary under Contract No. YL/2020/03

GENERAL NOTES

- AMENITY TREES (HEAVY STANDARD SPECIMENS) ARE PROPOSED FOR ROADSIDE AREAS. THE SELECTED SPECIES WILL INCLUDE TREES SUCH AS APOROSA DIOICA, BRIDELIA TOMENTOSA, ELAEOCARPUS CHINENSIS AND ILEX ROTUNDA VAR. MICROCARPA.
- EXISTING TREES PRESENT WITHIN THE SITE BOUNDARY WHICH ARE UNAFFECTED BY THE WORKS SHALL BE RETAINED AND DISTURBANCE SHOULD BE AVOIDED BY THE PROPOSED PLANTING WORKS.
- THE PROPOSALS FOR THE COMPENSATORY TREE PLANTING FOR THE ACCESS ROADS WILL BE COMPLETED ONCE THE ENGINEERING SCHEME IS FINALIZED.
- THE SPECIFICATIONS FOR PRE-PLANTING AND PLANTING WORKS WILL FOLLOW THE GENERAL SPECIFICATION FOR CIVIL ENGINEERING WORKS (2006) SECTION 3- LANDSCAPE SOFTWORKS AND ESTABLISHMENT WORKS.
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Rev	Date	Drawn	Description	Ch'k'd	App'd
1	JUN 21	FY	GENERAL REVISION	CJF	CJF

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Client

CEDD CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

Project

CONTRACT NO. YL/2020/03
HUNG SHUI KIU / HA TSUEN
NEW DEVELOPMENT AREA
STAGE 1 WORKS - SITE FORMATION AND ENGINEERING INFRASTRUCTURE

Title

COMPENSATORY TREE PLANTING PLAN AND SCHEDULE
-SHEET 2 OF 3

Designed	FY		Eng check	CJF	
Drawn	WC		Coordination	SL	
Dwg check	YK		Approved	CJF	
Scale at A1	1:500	Status	-	Rev	1

Drawing Number 380288/LU/SH/SK0402

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Compensatory Tree Planting Schedule within the Interim Section of Road D1

CODE	BOTANICAL NAME	CHINESE NAME	TREE SIZE	GIRTH (MM)	CROWN SPREAD (MM)	OVERALL HEIGHT (MM)	LIVE CROWN RATIO (%)	SPACING (MM)	NO. OF TREES
PROPOSED AMENITY TREE PLANTING									
Apd	Aporosa dioica	銀柴	Heavy Standard	314	3000	6000	40	5000	3
Brt	Bridelia tomentosa	土蜜樹	Heavy Standard	314	3000	6000	40	5000	4
Elc	Elaeocarpus chinensis	中華杜英	Heavy Standard	314	3000	6000	40	5000	5
Irm	Ilex rotunda var. microcarpa	小果鐵冬青	Heavy Standard	314	3000	6000	40	5000	6

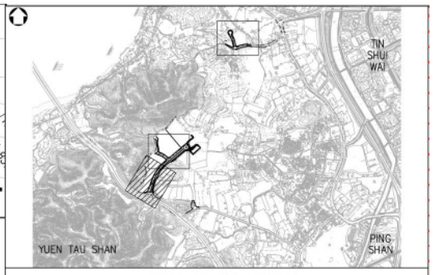
Compensatory Tree Planting Schedule outside the Interim Section of Road D1

CODE	BOTANICAL NAME	CHINESE NAME	TREE SIZE	GIRTH (MM)	CROWN SPREAD (MM)	OVERALL HEIGHT (MM)	LIVE CROWN RATIO (%)	SPACING (MM)	NO. OF TREES
PROPOSED AMENITY TREE PLANTING									
Apd	Aporosa dioica	銀柴	Heavy Standard	314	3000	6000	40	5000	9
Brt	Bridelia tomentosa	土蜜樹	Heavy Standard	314	3000	6000	40	5000	8
Elc	Elaeocarpus chinensis	中華杜英	Heavy Standard	314	3000	6000	40	5000	7
Irm	Ilex rotunda var. microcarpa	小果鐵冬青	Heavy Standard	314	3000	6000	40	5000	14

MATCH LINE TO LU/SH/SK0402

Elc 1 | Elc 1 | Irm 2 | Apd 1 | Brt 2

HORTICULTURAL MAINTENANCE PLAN														
ESTABLISHMENT PERIOD			MONTHS											
ITEM	MAINTENANCE OPERATION	FREQUENCY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	REMARKS
1.1	WATERING	280 DAYS													
1.2	LITTER COLLECTION	Daily													
1.3	WEED CONTROL	16/ year	1	1	1	1	2	2	2	2	1	1	1	1	
1.4	PRUNING OF SHRUBS	ONCE/MONTH	1	1	1	1	1	1	1	1	1	1	1	1	
1.5	PRUNING OF COMPENSATORY TREES	TWICE/YEAR					1						1		
1.6	FERTILISER APPLICATION	TWICE/YEAR			1						1	1			
1.7	TOPPING-UP MULCH	TWICE/YEAR			1						1	1			
1.8	PEST CONTROL	AS REQUIRED													
1.9	REPLACEMENT PLANTING - PERMANENT PLANTERS	AS REQUIRED WITHIN 14 DAYS													
1.10	TREE SUPPORT INSPECTION AND ADJUSTMENT	ONCE/MONTH	1	1	1	1	1	1	1	1	1	1	1	1	
1.11	CHECKING AFTER EXCEPTIONAL WEATHER	AS REQUIRED													
1.12	GRASS CUTTING	15/YEAR	1	1	1	1	2	2	2	1	2	1	1	1	
1.13	JOINT MAINTENANCE INSPECTION (LANDSCAPE ARCHITECT, SOFT LANDSCAPE CONTRACTOR, MANAGEMENT TEAM, LOT OWNER)	ONCE/MONTH	1	1	1	1	1	1	1	1	1	1	1	1	
1.14	TREE RISK ASSESSMENT IN ACCORDANCE WITH DEVB GUIDELINES	ONCE/YEAR				1									



KEY PLAN (1:25000)

LEGEND

- SITE BOUNDARY
- PROPOSED SITE
- +43.0 PROPOSED LEVELS
- EXISTING TREE TO BE RETAINED
- TRANSPLANTED TREES (AT THE PERMANENT RECEPTOR SITE) PROPOSED AMENITY TREE PLANTING
- Apd 2 SPECIES CODE NO. OF PLANTS
- Works boundary under Contract No. YL/2020/03

GENERAL NOTES

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Project

CONTRACT NO. YL/2020/03
HUNG SHUI KIU / HA TSUEN
NEW DEVELOPMENT AREA
STAGE 1 WORKS - SITE FORMATION AND ENGINEERING INFRASTRUCTURE

Title

COMPENSATORY TREE PLANTING PLAN AND SCHEDULE -SHEET 3 OF 3

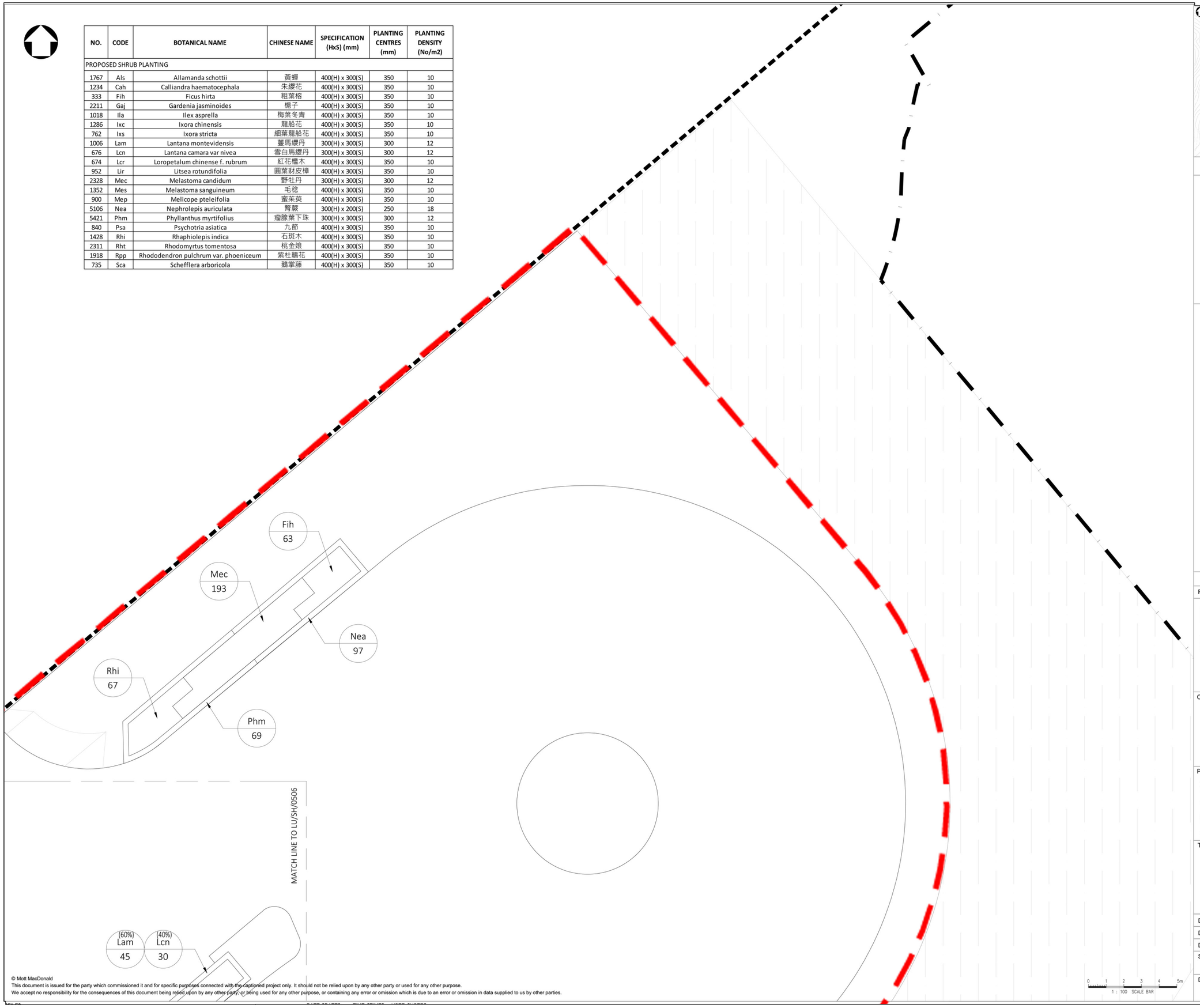
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Drawn	WC		Coordination	SL	
Dwg check	YK		Approved	CJF	
Scale at A1	1:500	Status	-	Rev	1

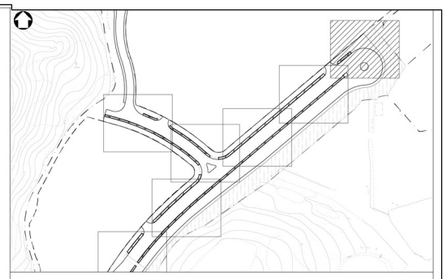
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NO.	CODE	BOTANICAL NAME	CHINESE NAME	SPECIFICATION (HxS) (mm)	PLANTING CENTRES (mm)	PLANTING DENSITY (No/m2)
PROPOSED SHRUB PLANTING						
1767	Als	Allamanda schottii	黃蟬	400(H) x 300(S)	350	10
1234	Cah	Calliandra haematocephala	朱纓花	400(H) x 300(S)	350	10
333	Fih	Ficus hirta	粗葉榕	400(H) x 300(S)	350	10
2211	Gaj	Gardenia jasminoides	梔子	400(H) x 300(S)	350	10
1018	Ila	Ilex asprella	梅葉冬青	400(H) x 300(S)	350	10
1286	Ixc	Ixora chinensis	龍船花	400(H) x 300(S)	350	10
762	Ixs	Ixora stricta	細葉龍船花	400(H) x 300(S)	350	10
1006	Lam	Lantana montevidensis	蔓馬纓丹	300(H) x 300(S)	300	12
676	Lcn	Lantana camara var nivea	雪白馬纓丹	300(H) x 300(S)	300	12
674	Lcr	Loropetalum chinense f. rubrum	紅花檵木	400(H) x 300(S)	350	10
952	Lir	Litsea rotundifolia	圓葉豺皮樟	400(H) x 300(S)	350	10
2328	Mec	Melastoma candidum	野牡丹	300(H) x 300(S)	300	12
1352	Mes	Melastoma sanguineum	毛稔	400(H) x 300(S)	350	10
900	Mep	Melicope pteleifolia	蜜茱萸	400(H) x 300(S)	350	10
5106	Nea	Nephrolepis auriculata	腎蕨	300(H) x 200(S)	250	18
5421	Phm	Phyllanthus myrtifolius	瘤腺葉下珠	300(H) x 300(S)	300	12
840	Psa	Psychotria asiatica	九節	400(H) x 300(S)	350	10
1428	Rhi	Rhaphiolepis indica	石斑木	400(H) x 300(S)	350	10
2311	Rht	Rhodomyrtus tomentosa	桃金娘	400(H) x 300(S)	350	10
1918	Rpp	Rhododendron pulchrum var. phoeniceum	紫杜鵑花	400(H) x 300(S)	350	10
735	Sca	Schefflera arboricola	鵝掌藤	400(H) x 300(S)	350	10





KEY PLAN (1: 3000)

LEGEND

- SITE BOUNDARY
- PROPOSED SITE
- +43.0 PROPOSED LEVELS
- HYDROSEEDING
- Works boundary under Contract No. YL/2020/03
- Als / 10 — SPECIES CODE / NO. OF PLANTS

GENERAL NOTES

- REFER TO TREE AND SHRUB PLANTING SCHEDULE FOR THE PROPOSED SIZES FOR THE PROPOSED SHADE TREES.
- BOTANICAL NAME SHALL BE TAKEN IN PRECEDENCE TO COMMON OR CHINESE NAME.
- PLANTING TO BE UNDERTAKEN FOLLOWING COMPLETION OF HARD WORKS.
- CONTRACTOR TO SUBMIT PHOTOGRAPHS FOR EACH TREE DEMONSTRATING COMPLIANCE WITH THE DIMENSIONS LISTED IN THE TREE AND SHRUB PLANTING SCHEDULE.
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- PLANTS TO BE PROTECTED DURING TRANSIT TO SITE AND UPON ARRIVAL.
- ALL PLANTS TO BE PLANTED IN PATTERN AND SPACING INDICATED IN THE PLANTING SCHEDULE.
- TREE GUYING IN ACCORDANCE WITH SPECIFICATION.
- CONTRACTOR SHALL PROVIDE ADEQUATE WATERING TO ALL PLANTED AREAS AS SPECIFIED.
- ESTABLISHMENT WORKS - MAINTENANCE OF PLANTING TO BE UNDERTAKEN IN ACCORDANCE WITH THE HORTICULTURAL MAINTENANCE PLAN AND SOFTWORKS SPECIFICATION.
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Rev	Date	Drawn	Description	Ch'k'd	App'd
A	NOV 21	FY	FOR CONSTRUCTION	CJF	CJF

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Client

CEDD
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

Project

CONTRACT NO. YL/2020/03
HUNG SHUI KIU / HA TSUEN
NEW DEVELOPMENT AREA
STAGE 1 WORKS - SITE FORMATION AND ENGINEERING INFRASTRUCTURE

Title

SHRUB PLANTING PLAN AND SCHEDULE
- SHEET 5 OF 14

Designed	FY		Eng check	CJF	
Drawn	WC		Coordination	SL	
Dwg check	YK		Approved	CJF	
Scale at A1	1:100	Status	CON	Rev	A

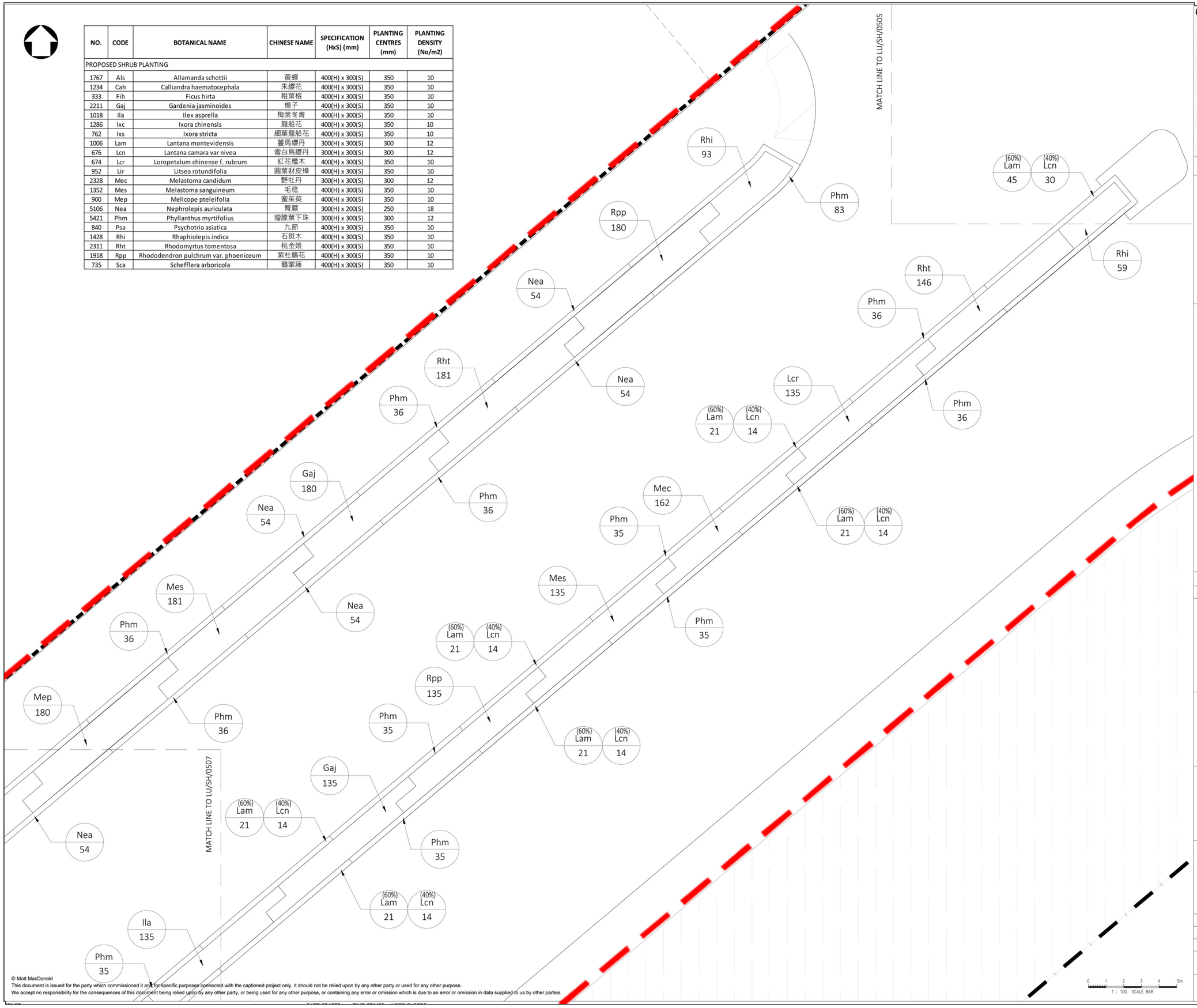
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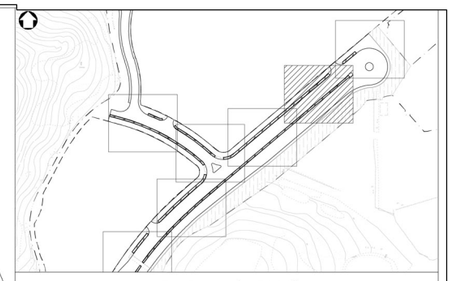
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333	Fih	Ficus hirta	粗葉榕	400(H) x 300(S)	350	10
2211	Gaj	Gardenia jasminoides	梔子	400(H) x 300(S)	350	10
1018	Ila	Ilex asprella	梅葉冬青	400(H) x 300(S)	350	10
1286	Ixc	Ixora chinensis	龍船花	400(H) x 300(S)	350	10
762	Ixs	Ixora stricta	細葉龍船花	400(H) x 300(S)	350	10
1006	Lam	Lantana montevidensis	蔓馬纓丹	300(H) x 300(S)	300	12
676	Lcn	Lantana camara var nivea	雪白馬纓丹	300(H) x 300(S)	300	12
674	Lcr	Loropetalum chinense f. rubrum	紅花檵木	400(H) x 300(S)	350	10
952	Lir	Litsea rotundifolia	圓葉豺皮樟	400(H) x 300(S)	350	10
2328	Mec	Melastoma candidum	野牡丹	300(H) x 300(S)	300	12
1352	Mes	Melastoma sanguineum	毛稔	400(H) x 300(S)	350	10
900	Mep	Melicope pteleifolia	蜜茱萸	400(H) x 300(S)	350	10
5106	Nea	Nephrolepis auriculata	腎蕨	300(H) x 200(S)	250	18
5421	Phm	Phyllanthus myrtifolius	瘤腺葉下珠	300(H) x 300(S)	300	12
840	Psa	Psychotria asiatica	九節	400(H) x 300(S)	350	10
1428	Rhi	Rhaphiolepis indica	石斑木	400(H) x 300(S)	350	10
2311	Rht	Rhodomyrtus tomentosa	桃金娘	400(H) x 300(S)	350	10
1918	Rpp	Rhododendron pulchrum var. phoeniceum	紫杜鵑花	400(H) x 300(S)	350	10
735	Sca	Schefflera arboricola	鵝掌藤	400(H) x 300(S)	350	10





KEY PLAN (1: 3000)

LEGEND

- SITE BOUNDARY
- PROPOSED SITE
- +43.0 PROPOSED LEVELS
- HYDROSEEDING
- Works boundary under Contract No. YL/2020/03
- Als / 10 SPECIES CODE / NO. OF PLANTS

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Rev	Date	Drawn	Description	Ch'k'd	App'd
A	NOV 21	FY	FOR CONSTRUCTION	CJF	CJF

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Project

CONTRACT NO. YL/2020/03
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NEW DEVELOPMENT AREA
STAGE 1 WORKS - SITE FORMATION AND ENGINEERING INFRASTRUCTURE

Title

SHRUB PLANTING PLAN AND SCHEDULE
- SHEET 6 OF 14

Designed	FY		Eng check	CJF	
Drawn	WC		Coordination	SL	
Dwg check	YK		Approved	CJF	

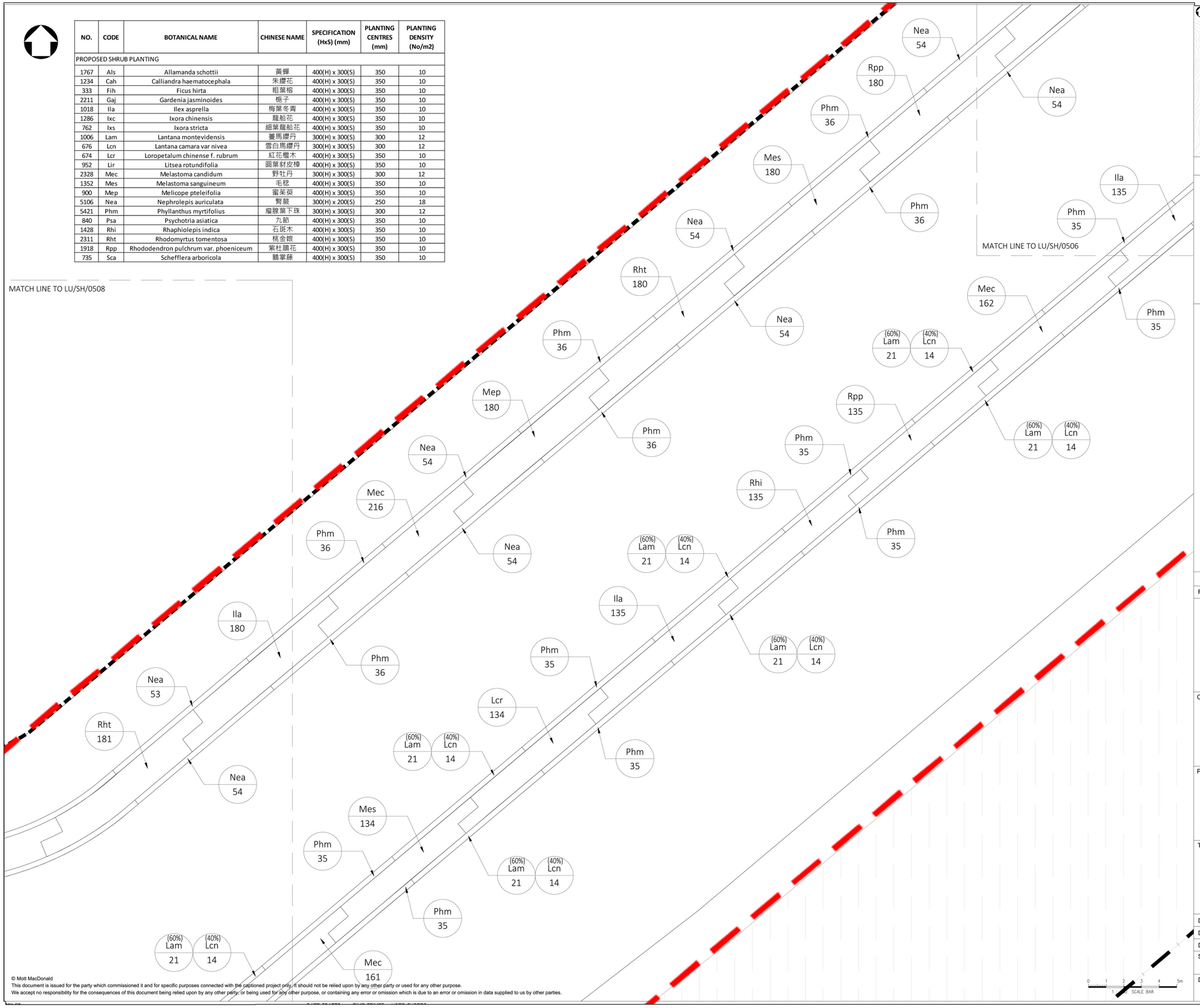
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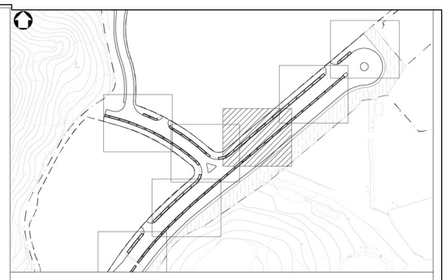
Drawing Number

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KEY PLAN (1:3000)

LEGEND

- SITE BOUNDARY
- PROPOSED SITE
- +43.0 PROPOSED LEVELS
- HYDROSEEDING
- Works boundary under Contract No. YL/2020/03
- Als / 10 SPECIES CODE / NO. OF PLANTS

GENERAL NOTES

- REFER TO TREE AND SHRUB PLANTING SCHEDULE FOR THE PROPOSED SIZES FOR THE PROPOSED SHADE TREES.
- BOTANICAL NAME SHALL BE TAKEN IN PRECEDENCE TO COMMON OR CHINESE NAME.
- PLANTING TO BE UNDERTAKEN FOLLOWING COMPLETION OF HARD WORKS.
- CONTRACTOR TO SUBMIT PHOTOGRAPHS FOR EACH TREE DEMONSTRATING COMPLIANCE WITH THE DIMENSIONS LISTED IN THE TREE AND SHRUB PLANTING SCHEDULE.
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- TREE GUYING IN ACCORDANCE WITH SPECIFICATION.
- CONTRACTOR SHALL PROVIDE ADEQUATE WATERING TO ALL PLANTED AREAS AS SPECIFIED.
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- THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH 380288/LU/SH/501-506, 508-514.

Rev	Date	Drawn	Description	Ch'k'd	App'd
A	NOV 21	FY	FOR CONSTRUCTION	CJF	CJF

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Client

CEDD CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

Project

CONTRACT NO. YL/2020/03
HUNG SHUI KIU / HA TSUEN
NEW DEVELOPMENT AREA
STAGE 1 WORKS - SITE FORMATION AND ENGINEERING INFRASTRUCTURE

Title

SHRUB PLANTING PLAN AND SCHEDULE
- SHEET 7 OF 14

Designed	FY		Eng check	CJF	
Drawn	WC		Coordination	SL	
Dwg check	YK		Approved	CJF	

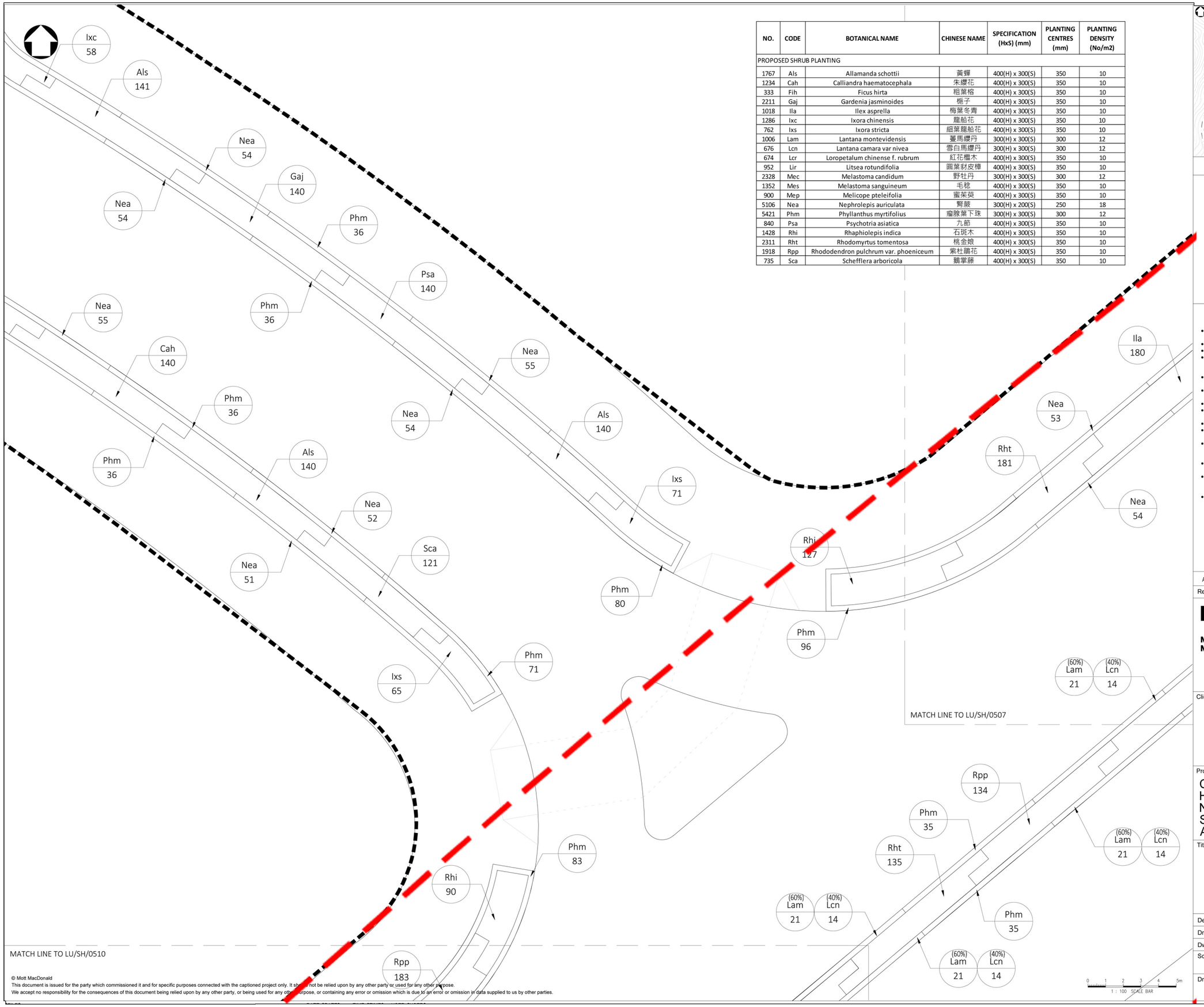
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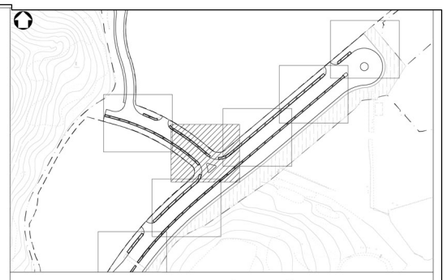
Drawing Number

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NO.	CODE	BOTANICAL NAME	CHINESE NAME	SPECIFICATION (HxS) (mm)	PLANTING CENTRES (mm)	PLANTING DENSITY (No/m2)
PROPOSED SHRUB PLANTING						
1767	Als	Allamanda schottii	黃蟬	400(H) x 300(S)	350	10
1234	Cah	Calliandra haematocephala	朱纓花	400(H) x 300(S)	350	10
333	Fih	Ficus hirta	粗葉榕	400(H) x 300(S)	350	10
2211	Gaj	Gardenia jasminoides	梔子	400(H) x 300(S)	350	10
1018	Ila	Ilex asprella	梅葉冬青	400(H) x 300(S)	350	10
1286	Ixc	Ixora chinensis	龍船花	400(H) x 300(S)	350	10
762	Ixs	Ixora stricta	細葉龍船花	400(H) x 300(S)	350	10
1006	Lam	Lantana montevidensis	蔓馬纓丹	300(H) x 300(S)	300	12
676	Lcn	Lantana camara var nivea	雪白馬纓丹	300(H) x 300(S)	300	12
674	Lcr	Loropetalum chinense f. rubrum	紅花檵木	400(H) x 300(S)	350	10
952	Lir	Litsea rotundifolia	圓葉豺皮樟	400(H) x 300(S)	350	10
2328	Mec	Melastoma candidum	野牡丹	300(H) x 300(S)	300	12
1352	Mes	Melastoma sanguineum	毛稔	400(H) x 300(S)	350	10
900	Mep	Melicope pteleifolia	蜜茱萸	400(H) x 300(S)	350	10
5106	Nea	Nephrolepis auriculata	腎蕨	300(H) x 200(S)	250	18
5421	Phm	Phyllanthus myrtifolius	瘤腺葉下珠	300(H) x 300(S)	300	12
840	Psa	Psychotria asiatica	九節	400(H) x 300(S)	350	10
1428	Rhi	Rhaphiolepis indica	石斑木	400(H) x 300(S)	350	10
2311	Rht	Rhodomyrtus tomentosa	桃金娘	400(H) x 300(S)	350	10
1918	Rpp	Rhododendron pulchrum var. phoeniceum	紫杜鵑花	400(H) x 300(S)	350	10
735	Sca	Schefflera arboricola	鵝掌藤	400(H) x 300(S)	350	10





KEY PLAN (1: 3000)

LEGEND

- SITE BOUNDARY
- PROPOSED SITE
- +43.0 PROPOSED LEVELS
- HYDROSEEDING
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- Als / 10 SPECIES CODE / NO. OF PLANTS

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CEDD CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

Project

CONTRACT NO. YL/2020/03
HUNG SHUI KIU / HA TSUEN
NEW DEVELOPMENT AREA
STAGE 1 WORKS - SITE FORMATION
AND ENGINEERING INFRASTRUCTURE

Title

SHRUB PLANTING PLAN
AND SCHEDULE
- SHEET 8 OF 14

Designed	FY		Eng check	CJF	
Drawn	WC		Coordination	SL	
Dwg check	YK		Approved	CJF	

Scale at A1	Status	Rev
1:100	CON	A

Drawing Number

380288/LU/SH/0508

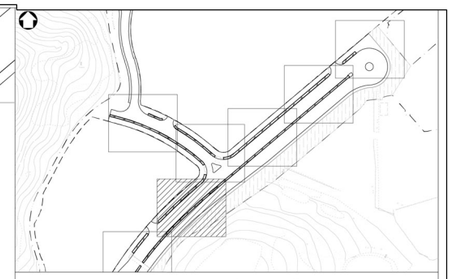
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MATCH LINE TO LU/SH/0508

Rpp 183
Nea 52
Rht 180
Nea 52
Phm 36
Mep 180
Phm 36
Nea 54
Gaj 180
Nea 55
Phm 36
Rpp 180
Phm 36
Nea 54
Rhi 180
Nea 54
Phm 45
Rht 133
Phm 35
Gaj 133
(60%) Lam 20
(40%) Lcn 14
Phm 34
Phm 35
Mec 162
(60%) Lam 21
(40%) Lcn 14
Phm 35
Mes 135
Ila 134
Phm 35
(60%) Lam 21
(40%) Lcn 14
Gaj 133
(60%) Lam 21
(40%) Lcn 14
Phm 35
Mec 164
Phm 35
(60%) Lam 21
(40%) Lcn 14
Lcr 136
Phm 35
(60%) Lam 21
(40%) Lcn 14
(60%) Lam 21
(40%) Lcn 14

MATCH LINE TO LU/SH/0511

Mes 134



KEY PLAN (1: 3000)

LEGEND

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- PROPOSED SITE
- +43.0 PROPOSED LEVELS
- HYDROSEEDING
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NO.	CODE	BOTANICAL NAME	CHINESE NAME	SPECIFICATION (HxS) (mm)	PLANTING CENTRES (mm)	PLANTING DENSITY (No/m2)
PROPOSED SHRUB PLANTING						
1767	Als	Allamanda schottii	黃蟬	400(H) x 300(S)	350	10
1234	Cah	Calliandra haematocephala	朱纓花	400(H) x 300(S)	350	10
333	Fih	Ficus hirta	粗葉榕	400(H) x 300(S)	350	10
2211	Gaj	Gardenia jasminoides	梔子	400(H) x 300(S)	350	10
1018	Ila	Ilex asprella	梅葉冬青	400(H) x 300(S)	350	10
1286	Ixc	Ixora chinensis	龍船花	400(H) x 300(S)	350	10
762	Ixs	Ixora stricta	細葉龍船花	400(H) x 300(S)	350	10
1006	Lam	Lantana montevidensis	蔓馬纓丹	300(H) x 300(S)	300	12
676	Lcn	Lantana camara var nivea	雪白馬纓丹	300(H) x 300(S)	300	12
674	Lcr	Loropetalum chinense f. rubrum	紅花檵木	400(H) x 300(S)	350	10
952	Lir	Litsea rotundifolia	圓葉豺皮樟	400(H) x 300(S)	350	10
2328	Mec	Melastoma candidum	野牡丹	300(H) x 300(S)	300	12
1352	Mes	Melastoma sanguineum	毛稔	400(H) x 300(S)	350	10
900	Mep	Melicope pteleifolia	蜜茱萸	400(H) x 300(S)	350	10
5106	Nea	Nephrolepis auriculata	腎蕨	300(H) x 200(S)	250	18
5421	Phm	Phyllanthus myrtifolius	瘤腺葉下珠	300(H) x 300(S)	300	12
840	Psa	Psychotria asiatica	九節	400(H) x 300(S)	350	10
1428	Rhi	Rhaphiolepis indica	石斑木	400(H) x 300(S)	350	10
2311	Rht	Rhodomyrtus tomentosa	桃金娘	400(H) x 300(S)	350	10
1918	Rpp	Rhododendron pulchrum var. phoeniceum	紫杜鵑花	400(H) x 300(S)	350	10
735	Sca	Schefflera arboricola	鵝掌藤	400(H) x 300(S)	350	10

0 1 2 3 4 5m
1 : 100 SCALE BAR

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CEDD
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

Project

CONTRACT NO. YL/2020/03
HUNG SHUI KIU / HA TSUEN NEW DEVELOPMENT AREA
STAGE 1 WORKS - SITE FORMATION AND ENGINEERING INFRASTRUCTURE

Title

SHRUB PLANTING PLAN AND SCHEDULE
- SHEET 10 OF 14

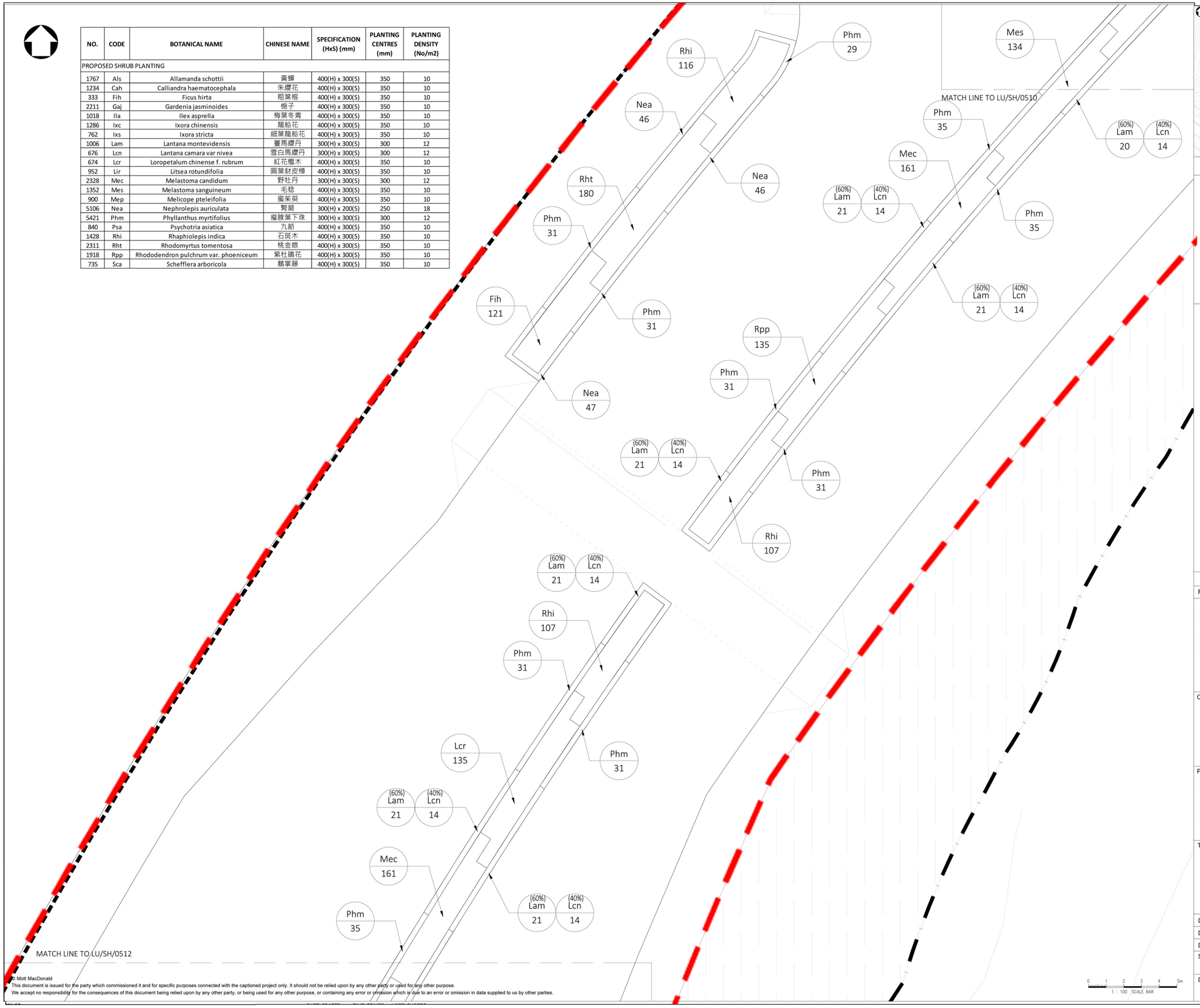
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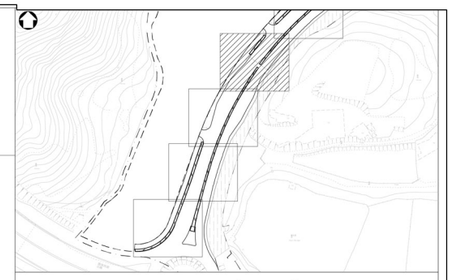
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1:100	CON	A

Drawing Number

380288/LU/SH/0510

NO.	CODE	BOTANICAL NAME	CHINESE NAME	SPECIFICATION (HxS) (mm)	PLANTING CENTRES (mm)	PLANTING DENSITY (No/m2)
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333	Fih	Ficus hirta	粗葉榕	400(H) x 300(S)	350	10
2211	Gaj	Gardenia jasminoides	梔子	400(H) x 300(S)	350	10
1018	Ila	Ilex asprella	梅葉冬青	400(H) x 300(S)	350	10
1286	Ixc	Ixora chinensis	龍船花	400(H) x 300(S)	350	10
762	Ixs	Ixora stricta	細葉龍船花	400(H) x 300(S)	350	10
1006	Lam	Lantana montevidensis	蔓馬纓丹	300(H) x 300(S)	300	12
676	Lcn	Lantana camara var nivea	雪白馬纓丹	300(H) x 300(S)	300	12
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KEY PLAN (1: 3000)

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NEW DEVELOPMENT AREA
STAGE 1 WORKS - SITE FORMATION AND ENGINEERING INFRASTRUCTURE

Title

SHRUB PLANTING PLAN
AND SCHEDULE
- SHEET 11 OF 14

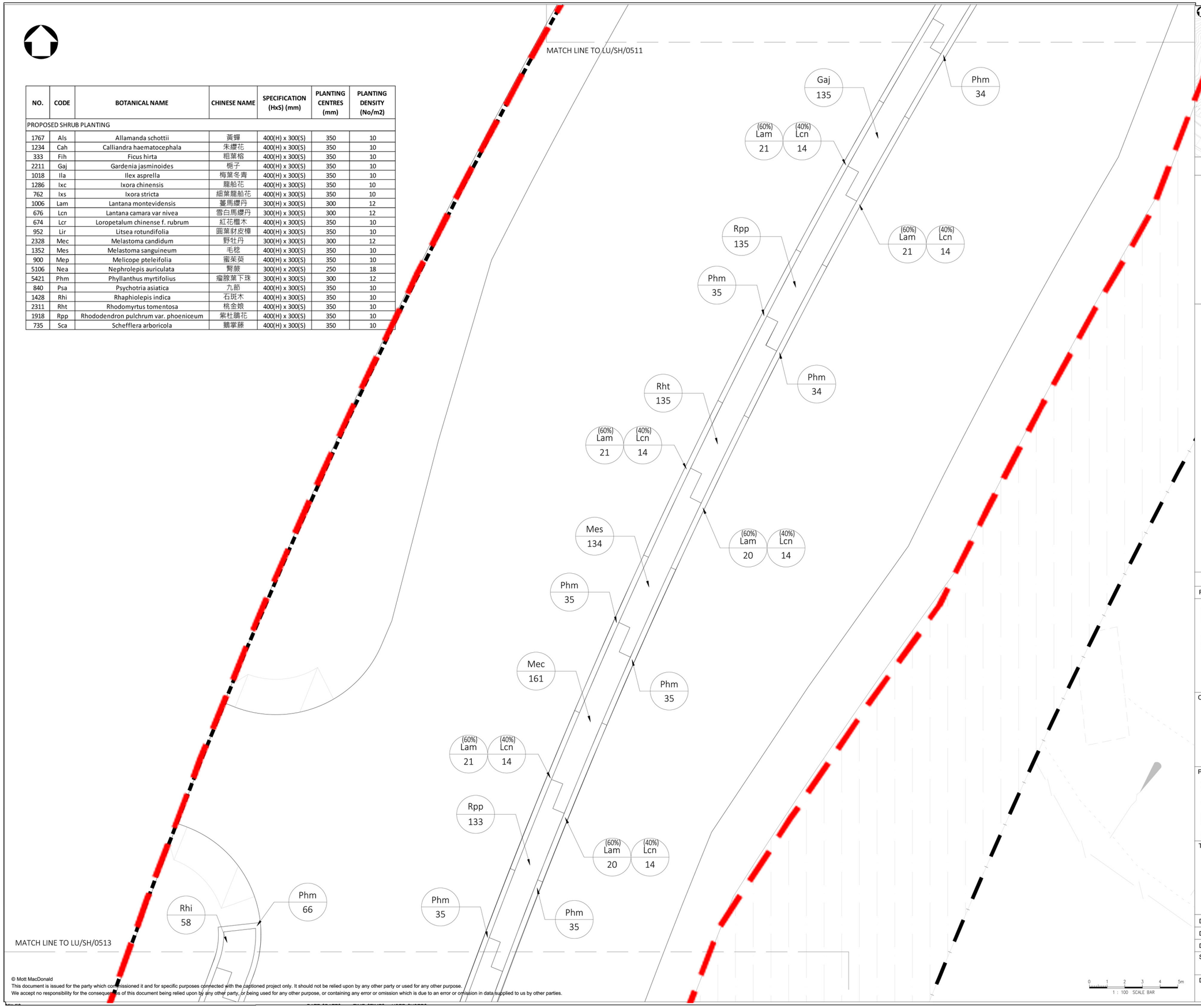
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Drawn	WC		Coordination	SL	
Dwg check	YK		Approved	CJF	
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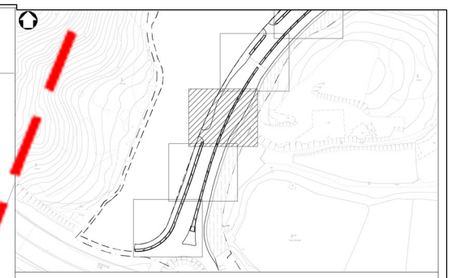
Drawing Number

380288/LU/SH/0511

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676	Lcn	Lantana camara var nivea	雪白馬纓丹	300(H) x 300(S)	300	12
674	Lcr	Loropetalum chinense f. rubrum	紅花檵木	400(H) x 300(S)	350	10
952	Lir	Litsea rotundifolia	圓葉豺皮樟	400(H) x 300(S)	350	10
2328	Mec	Melastoma candidum	野牡丹	300(H) x 300(S)	300	12
1352	Mes	Melastoma sanguineum	毛稔	400(H) x 300(S)	350	10
900	Mep	Melicope pteleifolia	蜜茱萸	400(H) x 300(S)	350	10
5106	Nea	Nephrolepis auriculata	腎蕨	300(H) x 200(S)	250	18
5421	Phm	Phyllanthus myrtifolius	瘤腺葉下珠	300(H) x 300(S)	300	12
840	Psa	Psychotria asiatica	九節	400(H) x 300(S)	350	10
1428	Rhi	Rhaphiolepis indica	石斑木	400(H) x 300(S)	350	10
2311	Rht	Rhodomyrtus tomentosa	桃金娘	400(H) x 300(S)	350	10
1918	Rpp	Rhododendron pulchrum var. phoeniceum	紫杜鵑花	400(H) x 300(S)	350	10
735	Sca	Schefflera arboricola	鵝掌藤	400(H) x 300(S)	350	10





KEY PLAN (1: 3000)

LEGEND

- SITE BOUNDARY
- PROPOSED SITE
- +43.0 PROPOSED LEVELS
- HYDROSEEDING
- Works boundary under Contract No. YL/2020/03
- Als / 10 SPECIES CODE / NO. OF PLANTS

GENERAL NOTES

- REFER TO TREE AND SHRUB PLANTING SCHEDULE FOR THE PROPOSED SIZES FOR THE PROPOSED SHADE TREES.
- BOTANICAL NAME SHALL BE TAKEN IN PRECEDENCE TO COMMON OR CHINESE NAME.
- PLANTING TO BE UNDERTAKEN FOLLOWING COMPLETION OF HARD WORKS.
- CONTRACTOR TO SUBMIT PHOTOGRAPHS FOR EACH TREE DEMONSTRATING COMPLIANCE WITH THE DIMENSIONS LISTED IN THE TREE AND SHRUB PLANTING SCHEDULE.
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- CONTRACTOR SHALL PROVIDE ADEQUATE WATERING TO ALL PLANTED AREAS AS SPECIFIED.
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- THE SOIL PROFILE SHALL BE MAINTAINED AS DESIGNED. ANY CHANGE TO THE SOIL SHALL BE CHECKED AND APPROVED BY THE PROJECT MANAGER.
- THE SPECIFICATIONS FOR PRE-PLANTING AND PLANTING WORKS WILL FOLLOW THE GENERAL SPECIFICATION FOR CIVIL ENGINEERING WORKS (2006) SECTION 3 - LANDSCAPE SOFTWORKS AND ESTABLISHMENT WORKS
- THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH DRAWING NOS. 380288/LU/SH/501-511, 513-514.

Rev	Date	Drawn	Description	Ch'k'd	App'd
A	NOV 21	FY	FOR CONSTRUCTION	CJF	CJF

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CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

Project

CONTRACT NO. YL/2020/03
HUNG SHUI KIU / HA TSUEN
NEW DEVELOPMENT AREA
STAGE 1 WORKS - SITE FORMATION AND ENGINEERING INFRASTRUCTURE

Title

SHRUB PLANTING PLAN AND SCHEDULE - SHEET 12 OF 14

Designed	FY		Eng check	CJF	
Drawn	WC		Coordination	SL	
Dwg check	YK		Approved	CJF	

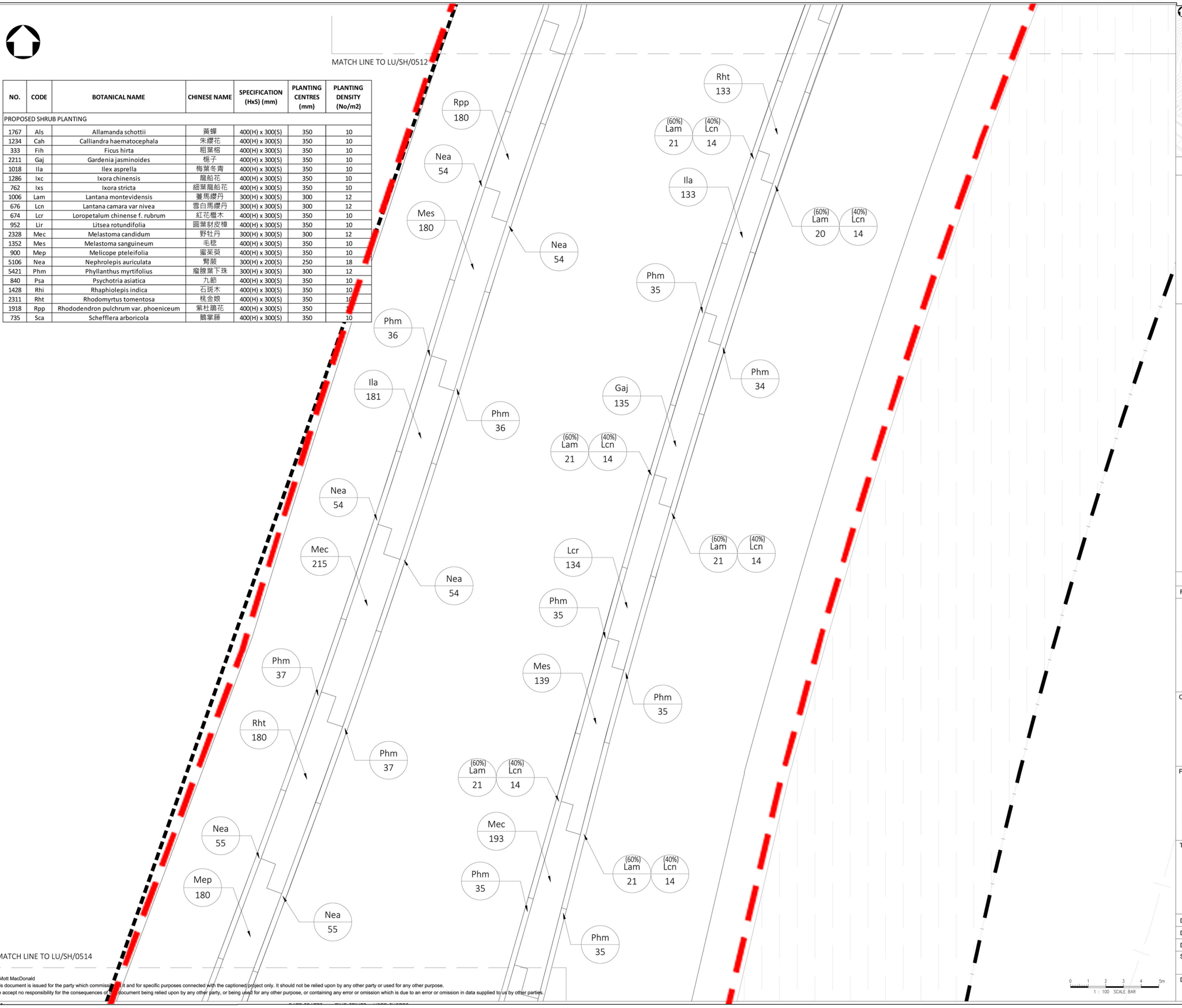
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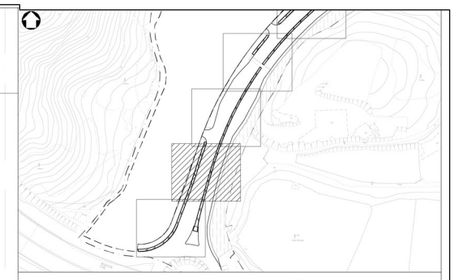
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NO.	CODE	BOTANICAL NAME	CHINESE NAME	SPECIFICATION (HxS) (mm)	PLANTING CENTRES (mm)	PLANTING DENSITY (No/m2)
PROPOSED SHRUB PLANTING						
1767	Als	Allamanda schottii	黃蟬	400(H) x 300(S)	350	10
1234	Cah	Calliandra haematocephala	朱纓花	400(H) x 300(S)	350	10
333	Fih	Ficus hirta	粗葉榕	400(H) x 300(S)	350	10
2211	Gaj	Gardenia jasminoides	梔子	400(H) x 300(S)	350	10
1018	Ila	Ilex asprella	梅葉冬青	400(H) x 300(S)	350	10
1286	Ixc	Ixora chinensis	龍船花	400(H) x 300(S)	350	10
762	Ixs	Ixora stricta	細葉龍船花	400(H) x 300(S)	350	10
1006	Lam	Lantana montevidensis	蔓馬纓丹	300(H) x 300(S)	300	12
676	Lcn	Lantana camara var nivea	雪白馬纓丹	300(H) x 300(S)	300	12
674	Lcr	Loropetalum chinense f. rubrum	紅花檵木	400(H) x 300(S)	350	10
952	Lir	Litsea rotundifolia	圓葉豺皮樟	400(H) x 300(S)	350	10
2328	Mec	Melastoma candidum	野牡丹	300(H) x 300(S)	300	12
1352	Mes	Melastoma sanguineum	毛稔	400(H) x 300(S)	350	10
900	Mep	Melicope pteleifolia	蜜茱萸	400(H) x 300(S)	350	10
5106	Nea	Nephrolepis auriculata	腎蕨	300(H) x 200(S)	250	18
5421	Phm	Phyllanthus myrtifolius	瘤腺葉下珠	300(H) x 300(S)	300	12
840	Psa	Psychotria asiatica	九節	400(H) x 300(S)	350	10
1428	Rhi	Rhaphiolepis indica	石斑木	400(H) x 300(S)	350	10
2311	Rht	Rhodomyrtus tomentosa	桃金娘	400(H) x 300(S)	350	10
1918	Rpp	Rhododendron pulchrum var. phoeniceum	紫杜鵑花	400(H) x 300(S)	350	10
735	Sca	Schefflera arboricola	鵝掌藤	400(H) x 300(S)	350	10





KEY PLAN (1: 3000)

LEGEND

- SITE BOUNDARY
- PROPOSED SITE
- +43.0 PROPOSED LEVELS
- HYDROSEEDING
- Works boundary under Contract No. YL/2020/03
- Als / 10 SPECIES CODE / NO. OF PLANTS

GENERAL NOTES

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Client

CEDD CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

Project

CONTRACT NO. YL/2020/03
HUNG SHUI KIU / HA TSUEN
NEW DEVELOPMENT AREA
STAGE 1 WORKS - SITE FORMATION
AND ENGINEERING INFRASTRUCTURE

Title

SHRUB PLANTING PLAN
AND SCHEDULE
- SHEET 13 OF 14

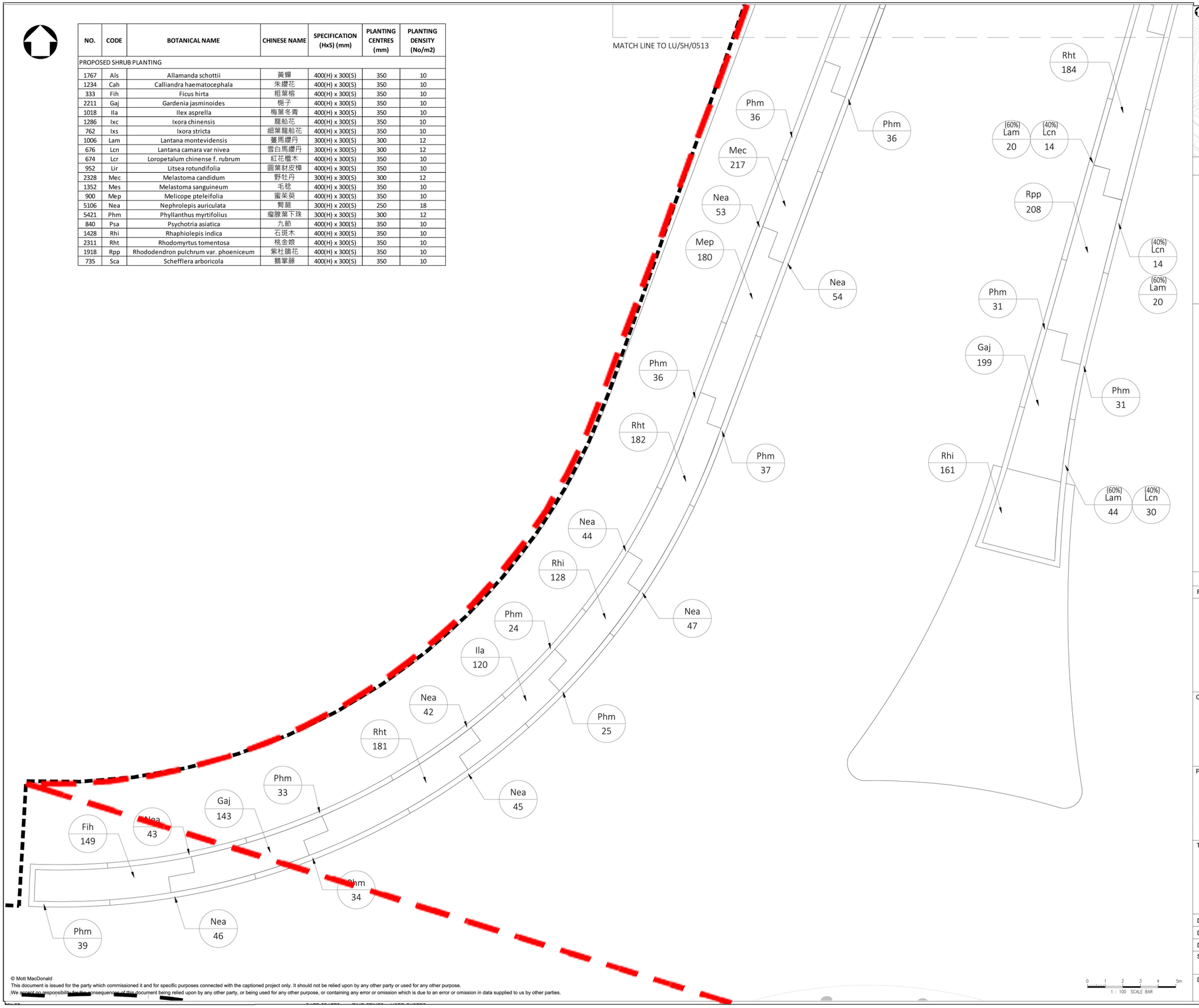
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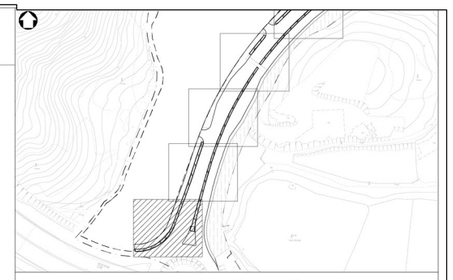
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2211	Gaj	Gardenia jasminoides	梔子	400(H) x 300(S)	350	10
1018	Ila	Ilex asprella	梅葉冬青	400(H) x 300(S)	350	10
1286	Ixc	Ixora chinensis	龍船花	400(H) x 300(S)	350	10
762	Ixs	Ixora stricta	細葉龍船花	400(H) x 300(S)	350	10
1006	Lam	Lantana montevidensis	蘺馬纓丹	300(H) x 300(S)	300	12
676	Lcn	Lantana camara var nivea	雪白馬纓丹	300(H) x 300(S)	300	12
674	Lcr	Loropetalum chinense f. rubrum	紅花檵木	400(H) x 300(S)	350	10
952	Lir	Litsea rotundifolia	圓葉豺皮樟	400(H) x 300(S)	350	10
2328	Mec	Melastoma candidum	野牡丹	300(H) x 300(S)	300	12
1352	Mes	Melastoma sanguineum	毛稔	400(H) x 300(S)	350	10
900	Mep	Melicope pteleifolia	蜜茱萸	400(H) x 300(S)	350	10
5106	Nea	Nephrolepis auriculata	腎蕨	300(H) x 200(S)	250	18
5421	Phm	Phyllanthus myrtifolius	瘤腺葉下珠	300(H) x 300(S)	300	12
840	Psa	Psychotria asiatica	九節	400(H) x 300(S)	350	10
1428	Rhi	Rhaphiolepis indica	石斑木	400(H) x 300(S)	350	10
2311	Rht	Rhodomyrtus tomentosa	桃金娘	400(H) x 300(S)	350	10
1918	Rpp	Rhododendron pulchrum var. phoeniceum	紫杜鵑花	400(H) x 300(S)	350	10
735	Sca	Schefflera arboricola	鵝掌藤	400(H) x 300(S)	350	10





KEY PLAN (1: 3000)

LEGEND

- SITE BOUNDARY
- PROPOSED SITE
- +43.0 PROPOSED LEVELS
- HYDROSEEDING
- Works boundary under Contract No. YL/2020/03
- Als / 10 SPECIES CODE / NO. OF PLANTS

GENERAL NOTES

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- THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH DRAWING NOS. 380288/LU/SH/501 TO 513.

Rev	Date	Drawn	Description	Ch'k'd	App'd
A	NOV 21	FY	FOR CONSTRUCTION	CJF	CJF

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Client

CEDD
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

Project

CONTRACT NO. YL/2020/03
HUNG SHUI KIU / HA TSUEN NEW DEVELOPMENT AREA
STAGE 1 WORKS - SITE FORMATION AND ENGINEERING INFRASTRUCTURE

Title

SHRUB PLANTING PLAN AND SCHEDULE
- SHEET 14 OF 14

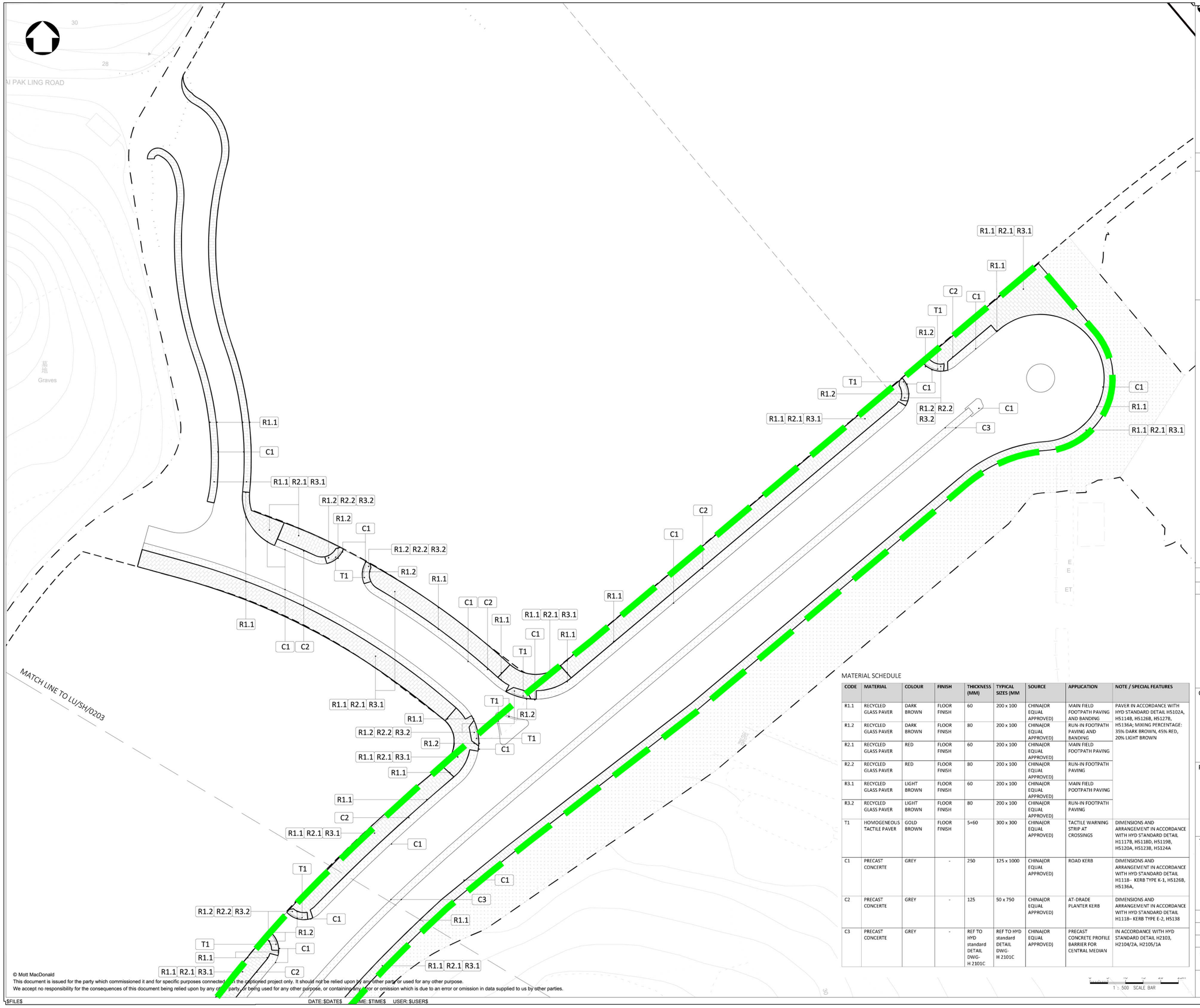
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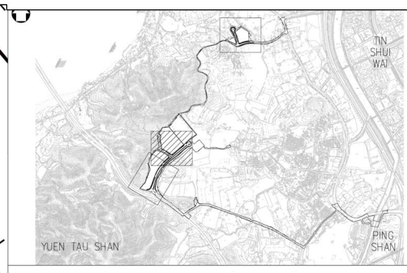
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APPENDIX I – HARD LANDSCAPE DESIGN





KEY PLAN (1: 25000)

LEGEND

- SITE BOUNDARY
- PROPOSED SITE
- +43.0 PROPOSED LEVELS
- PROPOSED PLANTING AREA
- DP boundary of the interim section of Road D1 (under Contract No. YL/2020/03)

GENERAL NOTES

- FOR GENERAL NOTES, REFER TO DRAWING NO. 380288/LU/SH/0001.
- THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH DRAWING NOS. 380288/LU/SH/0201 AND 0203.

MATERIAL SCHEDULE

CODE	MATERIAL	COLOUR	FINISH	THICKNESS (MM)	TYPICAL SIZES (MM	SOURCE	APPLICATION	NOTE / SPECIAL FEATURES
R1.1	RECYCLED GLASS PAVER	DARK BROWN	FLOOR FINISH	60	200 x 100	CHINA(OR EQUAL APPROVED)	MAIN FIELD FOOTPATH PAVING AND BANDING	PAVER IN ACCORDANCE WITH HYD STANDARD DETAIL H5102A, H5114B, H5126B, H5127B, H5136A; MIXING PERCENTAGE: 35% DARK BROWN, 45% RED, 20% LIGHT BROWN
R1.2	RECYCLED GLASS PAVER	DARK BROWN	FLOOR FINISH	80	200 x 100	CHINA(OR EQUAL APPROVED)	RUN-IN FOOTPATH PAVING AND BANDING	
R2.1	RECYCLED GLASS PAVER	RED	FLOOR FINISH	60	200 x 100	CHINA(OR EQUAL APPROVED)	MAIN FIELD FOOTPATH PAVING	
R2.2	RECYCLED GLASS PAVER	RED	FLOOR FINISH	80	200 x 100	CHINA(OR EQUAL APPROVED)	RUN-IN FOOTPATH PAVING	
R3.1	RECYCLED GLASS PAVER	LIGHT BROWN	FLOOR FINISH	60	200 x 100	CHINA(OR EQUAL APPROVED)	MAIN FIELD POOTPATH PAVING	
R3.2	RECYCLED GLASS PAVER	LIGHT BROWN	FLOOR FINISH	80	200 x 100	CHINA(OR EQUAL APPROVED)	RUN-IN FOOTPATH PAVING	
T1	HOMOGENEOUS TACTILE PAVER	GOLD BROWN	FLOOR FINISH	5+60	300 x 300	CHINA(OR EQUAL APPROVED)	TACTILE WARNING STRIP AT CROSSINGS	DIMENSIONS AND ARRANGEMENT IN ACCORDANCE WITH HYD STANDARD DETAIL H1117B, H5118D, H5119B, H5120A, H5123B, H5124A
C1	PRECAST CONCERTE	GREY	-	250	125 x 1000	CHINA(OR EQUAL APPROVED)	ROAD KERB	DIMENSIONS AND ARRANGEMENT IN ACCORDANCE WITH HYD STANDARD DETAIL H1118– KERB TYPE K-1, H5126B, H5136A,
C2	PRECAST CONCERTE	GREY	-	125	50 x 750	CHINA(OR EQUAL APPROVED)	AT-DRADE PLANTER KERB	DIMENSIONS AND ARRANGEMENT IN ACCORDANCE WITH HYD STANDARD DETAIL H1118– KERB TYPE E-2, H5138
C3	PRECAST CONCERTE	GREY	-	REF TO HYD standard DETAIL DWG-H 2101C	REF TO HYD standard DETAIL DWG-H 2101C	CHINA(OR EQUAL APPROVED)	PRECAST CONCRETE PROFILE BARRIER FOR CENTRAL MEDIAN	IN ACCORDANCE WITH HYD STANDARD DETAIL H2103, H2104/2A, H2105/1A

1 : 500 SCALE BAR

Rev	Date	Drawn	Description	Ch'k'd	App'd
A	NOV 21	FY	FOR CONSTRUCTION	CJF	CJF

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Client

CEDD
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

Project

CONTRACT NO. YL/2020/03
HUNG SHUI KIU / HA TSUEN NEW DEVELOPMENT AREA
STAGE 1 WORKS - SITE FORMATION AND ENGINEERING INFRASTRUCTURE

Title

MATERIALS PLAN AND SCHEDULE - SHEET 2 OF 3

Designed	FY		Eng check	CJF	
Drawn	WC		Coordination	SL	
Dwg check	YK		Approved	CJF	

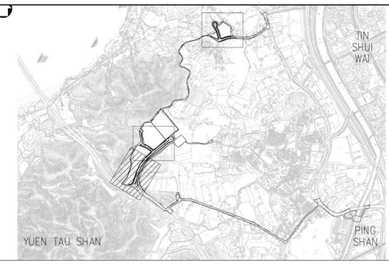
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Drawing Number

380288/LU/SH/0202

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KEY PLAN (1:25000)

LEGEND

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- PROPOSED SITE
- +43.0 PROPOSED LEVELS
- PROPOSED PLANTING AREA
- DP boundary of the interim section of Road D1 (under Contract No. YL/2020/03)

GENERAL NOTES

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MATERIAL SCHEDULE

CODE	MATERIAL	COLOUR	FINISH	THICKNESS (MM)	TYPICAL SIZES (MM	SOURCE	APPLICATION	NOTE / SPECIAL FEATURES
R1.1	RECYCLED GLASS PAVER	DARK BROWN	FLOOR FINISH	60	200 x 100	CHINA(OR EQUAL APPROVED)	MAIN FIELD FOOTPATH PAVING AND BANDING	PAVER IN ACCORDANCE WITH HYD STANDARD DETAIL H5102A, H5114B, H5126B, H5127B, H5136A; MIXING PERCENTAGE: 35% DARK BROWN, 45% RED, 20% LIGHT BROWN
R1.2	RECYCLED GLASS PAVER	DARK BROWN	FLOOR FINISH	80	200 x 100	CHINA(OR EQUAL APPROVED)	RUN-IN FOOTPATH PAVING AND BANDING	
R2.1	RECYCLED GLASS PAVER	RED	FLOOR FINISH	60	200 x 100	CHINA(OR EQUAL APPROVED)	MAIN FIELD FOOTPATH PAVING	
R2.2	RECYCLED GLASS PAVER	RED	FLOOR FINISH	80	200 x 100	CHINA(OR EQUAL APPROVED)	RUN-IN FOOTPATH PAVING	
R3.1	RECYCLED GLASS PAVER	LIGHT BROWN	FLOOR FINISH	60	200 x 100	CHINA(OR EQUAL APPROVED)	MAIN FIELD FOOTPATH PAVING	
R3.2	RECYCLED GLASS PAVER	LIGHT BROWN	FLOOR FINISH	80	200 x 100	CHINA(OR EQUAL APPROVED)	RUN-IN FOOTPATH PAVING	
T1	HOMOGENEOUS TACTILE PAVER	GOLD BROWN	FLOOR FINISH	5+60	300 x 300	CHINA(OR EQUAL APPROVED)	TACTILE WARNING STRIP AT CROSSINGS	DIMENSIONS AND ARRANGEMENT IN ACCORDANCE WITH HYD STANDARD DETAIL H1117B, H5118D, H5119B, H5120A, H5123B, H5124A
C1	PRECAST CONCERTE	GREY	-	250	125 x 1000	CHINA(OR EQUAL APPROVED)	ROAD KERB	DIMENSIONS AND ARRANGEMENT IN ACCORDANCE WITH HYD STANDARD DETAIL H1118– KERB TYPE K-1, H5126B, H5136A,
C2	PRECAST CONCERTE	GREY	-	125	50 x 750	CHINA(OR EQUAL APPROVED)	AT-DRADE PLANTER KERB	DIMENSIONS AND ARRANGEMENT IN ACCORDANCE WITH HYD STANDARD DETAIL H1118– KERB TYPE E-2, H5138
C3	PRECAST CONCERTE	GREY	-	REF TO HYD standard DETAIL DWG-H 2101C	REF TO HYD standard DETAIL DWG-H 2101C	CHINA(OR EQUAL APPROVED)	PRECAST CONCRETE PROFILE BARRIER FOR CENTRAL MEDIAN	IN ACCORDANCE WITH HYD STANDARD DETAIL H2103, H2104/2A, H2105/1A

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Rev	Date	Drawn	Description	Ch'k'd	App'd
A	NOV 21	FY	FOR CONSTRUCTION	CJF	CJF

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CEDD
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

Project

CONTRACT NO. YL/2020/03
HUNG SHUI KIU / HA TSUEN NEW DEVELOPMENT AREA
STAGE 1 WORKS - SITE FORMATION AND ENGINEERING INFRASTRUCTURE

Title

MATERIALS PLAN AND SCHEDULE - SHEET 3 OF 3

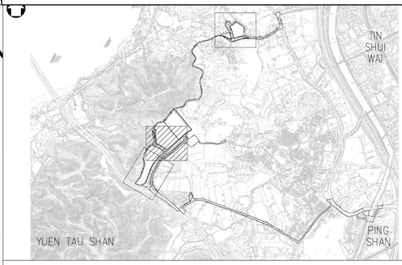
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KEY PLAN (1: 25000)

LEGEND

- SITE BOUNDARY
- PROPOSED SITE
- +43.0 PROPOSED LEVELS
- IRRIGATION POINT WITH 20M EXTENT
- SOILING FOR TREES 1200MM DEPTH MIN.
- SOILING FOR SHRUBS 600MM DEPTH MIN.
- SOILING FOR HYDROSEEDING 300MM DEPTH MIN.
- DP boundary of the interim section of Road D1 (under Contract No. YL/2020/03)

GENERAL NOTES

- FOR GENERAL NOTES, REFER TO DRAWING NO. 380288/LU/SH/0001.
- THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH DRAWING NOS. 380288/LU/SH/0301 AND 0303.

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CONTRACT NO. YL/2020/03
HUNG SHUI KIU / HA TSUEN NEW DEVELOPMENT AREA
STAGE 1 WORKS - SITE FORMATION AND ENGINEERING INFRASTRUCTURE

Title

SOILING AND IRRAGATION PLAN - SHEET 2 OF 3

Designed	FY		Eng check	CJF	
Drawn	WC		Coordination	SL	
Dwg check	YK		Approved	CJF	
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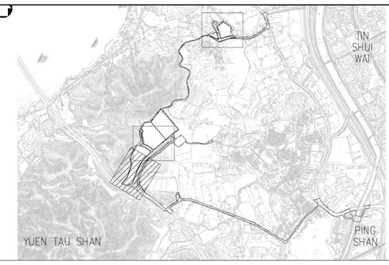
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KEY PLAN (1: 25000)

LEGEND

- SITE BOUNDARY
- PROPOSED SITE
- +43.0 PROPOSED LEVELS
- IRRIGATION POINT WITH 20M EXTENT
- SOILING FOR TREES 1200MM DEPTH MIN.
- SOILING FOR SHRUBS 600MM DEPTH MIN.
- SOILING FOR HYDROSEEDING 300MM DEPTH MIN.
- DP boundary of the interim section of Road D1 (under Contract No. YL/2020/03)

GENERAL NOTES

- FOR GENERAL NOTES, REFER TO DRAWING NO. 380288/LU/SH/0001.
- THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH DRAWING NOS. 38028/LU/SH/0301 AND 0302.

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Project

CONTRACT NO. YL/2020/03
HUNG SHUI KIU / HA TSUEN NEW DEVELOPMENT AREA
STAGE 1 WORKS - SITE FORMATION AND ENGINEERING INFRASTRUCTURE

Title

SOILING AND IRRAGATION PLAN - SHEET 3 OF 3

Designed	FY		Eng check	CJF	
Drawn	WC		Coordination	SL	
Dwg check	YK		Approved	CJF	

Scale at A1	Status	Rev
1:500	CON	A

Drawing Number

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APPENDIX J – PROJECT IMPLEMENTATION SCHEDULE

Appendix J - Project Implementation Schedule

Project Implementation Schedule - Common Mitigation Measures (Applicable to ALL Project Components, including DPs and Non-DPs)							
Landscape and Visual (Construction [CM] and Operation [OM] Phases)							
EIA Ref.	**EM&A Ref.**	**Recommended Mitigation Measures**	**Objectives of the Recommended & Main Concerns to Address**	**Implementation Agent**	**Location of the Measure**	**Implementation Timing**	**Requirements and / or Standards to be Achieved**
Table 11.8	CM1*	Minimised construction area and contractor's temporary works areas The construction area and contractor's temporary works areas should be minimised. General Good Practice Measures - For areas unavoidably disturbed by the Project on a short term basis e.g. works areas, the general principle to try and restore these to their former state to suit future land use, should be adhered to.	Minimise impacts on adjacent landscape	Government/ Developer/ Detailed Design Consultant/ Contractor	All construction areas and temporary works areas	Prior to construction, construction stage. This should be implemented as soon as the areas become available, to achieve early establishment	-
Table 11.8	CM2*	Stripping and storing of topsoil Topsoil, where identified, should be stripped and stored for re-use in the construction of the soft landscape works, where practical. The Contract Specification shall include storage and reuse of topsoil as appropriate. On potentially contaminated sites (as per Section 8) where investigation results indicate soil contamination is present, the use of contaminated soils for planting is to be avoided where appropriate.	Minimise the loss of existing topsoil and reduce the need to provide imported material	Government/ Developer/ Detailed Design Consultant/ Contractor	All construction areas	Detailed design, construction stages	
Table 11.8	CM3*	Protection of existing trees Tree Protection & Preservation – Exiting trees to be retained within the Project site should be carefully protected during construction. Detailed Tree Protection Specification shall be provided in the Contract Specification. Under this specification, the Contractor shall be required to submit, for approval, a detailed working method statement for the protection of trees prior to undertaking any works adjacent to all retained trees, including trees in Contractor's works areas. A detailed tree survey will be carried out for the Tree Removal Application (TRA) process which	Minimise the loss of existing topsoil and reduce the need to provide imported material	Government/ Developer/ Detailed Design Consultant/ Contractor	On site	Detailed design, construction stages	DEVB TC(W) no.4/2020 DEVB TC(W) no.5/2020

Project Implementation Schedule - Common Mitigation Measures (Applicable to ALL Project Components, including DPs and Non-DPs)							
Landscape and Visual (Construction [CM] and Operation [OM] Phases)							
EIA Ref.	**EM&A Ref.**	**Recommended Mitigation Measures**	**Objectives of the Recommended & Main Concerns to Address**	**Implementation Agent**	**Location of the Measure**	**Implementation Timing**	**Requirements and / or Standards to be Achieved**
		will be carried out at the later detailed design stage of the Project. The detailed tree survey will propose which trees should be retained, transplanted or felled and will include details of tree protection measures for those trees to be retained.					
Table 11.8	CM4	<u>Transplantation of existing trees where practical</u> Trees unavoidably affected by the Project works should be transplanted where practical. Trees should be transplanted straight to their final receptor site and not held in a temporary nursery as far as possible. A detailed Tree Transplanting Specification shall be provided in the Contract Specification, where applicable. Sufficient time for necessary tree root and crown preparation periods shall be allowed in the Project programme. A detailed transplanting proposal will be submitted to relevant government departments for approval in accordance with ETWBTC 2/2004 and 3/2006 and final locations of transplanted trees should be agreed prior to commencement of the work. For trees associated with highways e.g. roadside planting along highways, that are unavoidably affected and should be transplanted, HyD HQ/GN/13 'Interim Guidelines for Tree Transplanting Works under Highways Department's Vegetation Maintenance Ambit'. should be referred to.	Transplant Trees where suitable for transplantation	Government/ Developer/ Detailed Design Consultant/ Contractor	Onsite where possible. Otherwise consider offsite locations	Prior to Construction, Construction Phase & Maintenance in Operation Phase	ETWB TCW 3/2006 and 2/2004 HyD HQ/GN/13 Interim Guidelines for Tree Transplanting Works under Highways Department's Vegetation Maintenance Ambit
Table 11.8	CM5*	<u>Control of night-time lighting</u> Control of night-time lighting and glare by hooding all lights. Construction day and night time lighting should be controlled to minimise glare impact to adjacent VSRs during the Construction phase.	Minimise impact of night-time lighting and glare	Government/ Developer/ Contractor	All construction areas and temporary works areas	Construction stage	-

Project Implementation Schedule - Common Mitigation Measures (Applicable to ALL Project Components, including DPs and Non-DPs)							
Landscape and Visual (Construction [CM] and Operation [OM] Phases)							
EIA Ref.	**EM&A Ref.**	**Recommended Mitigation Measures**	**Objectives of the Recommended & Main Concerns to Address**	**Implementation Agent**	**Location of the Measure**	**Implementation Timing**	**Requirements and / or Standards to be Achieved**
Table 11.8	CM6*	Construction of decorative hoarding around construction works Erection of decorative mesh screens or construction hoardings around works areas in visually unobtrusive colours.	To screen undesirable views of the works site.	Contractor	All construction areas and temporary works areas	Construction stage	
Table 11.8	CM7*	Reduction of construction period to practical minimum Reduction of construction period to practical minimum.	Minimise length of exposure to construction works	Government/ Developer/ Detailed Design Consultant/ Contractor	All construction areas and temporary works areas	Construction stage	
Table 11.8	CM8*	Prevention of run-off Limitation of / Ensuring no run-off into surrounding landscape and prohibit run-off from entering adjacent water bodies and waterways. Refer to guidelines.	Minimise / limit impacts on surrounding landscape and adjacent water sea areas	Government/ Developer/ Detailed Design Consultant/ Contractor	All construction areas and temporary works areas	Construction stage	Guidelines for this include ETWB Technical Circular (Works) No. 5/2005 Protection of natural streams/rivers from adverse impacts arising from construction works; Building Department (BD) Practice Note for Authorised Persons and Registered Structural Engineers 295: Protection of natural streams/rivers from adverse impacts arising from construction works
Table 11.8	CM9*	Phasing of construction stage Phasing of the construction stage to reduce visual impacts.	Minimise visual impacts during the construction phase	Government/ Developer/ Detailed Design Consultant/ Contractor	All construction areas and temporary works areas	Construction stage	-

Project Implementation Schedule - Common Mitigation Measures (Applicable to ALL Project Components, including DPs and Non-DPs)							
Landscape and Visual (Construction [CM] and Operation [OM] Phases)							
EIA Ref.	**EM&A Ref.**	**Recommended Mitigation Measures**	**Objectives of the Recommended & Main Concerns to Address**	**Implementation Agent**	**Location of the Measure**	**Implementation Timing**	**Requirements and / or Standards to be Achieved**
Table 11.8	CM10	Advance screen planting Advance screen planting of fast growing tree and shrub species to noise barriers and hoardings. Trees shall be capable of reaching a height >10m within 10 years.	Minimise length of exposure without long term mitigation measures	Government/ Developer/ Detailed Design Consultant/ Contractor	Areas adjacent to noise barriers and hoardings	Detailed design, construction stages	ETWB TCW 3/2006 and 2/2004
Table 11.8	CM11*	Minimise disturbance footprints To minimise landscape and visual impacts, the footprint and elevation of such elements should be optimised to reduce topographical/ landform changes, as well as reduce land take and interference with natural terrain. Where there is a need to significantly cut into the existing landform, retaining walls should be considered as well as cut slopes, to minimise landform changes and land resumption, while also considering visual amenity. Earthworks and engineered slopes should be designed to be a visually interesting landform, compatible with the surrounding landscape and to mimic the natural contouring and terrain e.g. introduction and continuation of natural features such as spurs and ridges whereappropriate, to support assimilation with the hillside setting.	Reduce topographical changes and minimize land resumption	Government/ Developer/ Detailed Design Consultant/ Contractor	Throughout NDA	Detailed design, construction stages	GEO Publication No. 1/2011, Technical Guidelines on Landscape Treatment on Slopes
Table 11.8	CM12	Protection of existing water courses For all the natural rivers and streams inside the development area, consideration of protection measures should be made to minimise any impacts from the construction works.Avoid affecting Watercourses – In the detailed design, consideration should be made of watercourses, to minimise any impacts e.g. at new bridge crossings, viaducts, road alignment etc. Guidelines stated should be followed. Bridges and box culverts should also be used to minimise the necessity of watercourse	Avoid direct impacts to watercourses	Detailed Design Consultant/ Contractor	All natural rivers and streams inside development area	Detailed design, construction stages	Guidelines for this include ETWB Technical Circular (Works) No. 5/2005 Protection of natural streams/rivers from adverse impacts arising from construction works; Building Department (BD) Practice Note for Authorised Persons and Registered Structural Engineers

Project Implementation Schedule - Common Mitigation Measures (Applicable to ALL Project Components, including DPs and Non-DPs)							
Landscape and Visual (Construction [CM] and Operation [OM] Phases)							
EIA Ref.	**EM&A Ref.**	**Recommended Mitigation Measures**	**Objectives of the Recommended & Main Concerns to Address**	**Implementation Agent**	**Location of the Measure**	**Implementation Timing**	**Requirements and / or Standards to be Achieved**
		modification and protect the watercourses where necessary.					295: Protection of natural streams/rivers from adverse impacts arising from construction works
Table 11.8	CM13*	Hydroseeding on modified slopes Hydroseeding of modified slopes should be done as soon as grading works are completed to prevent erosion and subsequent loss of landscape resources and character. Woodland tree seedlings and/ or shrubs should be planted where slope gradient and site conditions allow. In addition, landscape planting should be provided for the retaining structures associated with modified slopes where conditions allow. All slope landscaping works should comply with GEO Publication No. 1/2011-Technical Guidelines on Landscape Treatment for Slopes.	To prevent erosion and subsequent loss of landscape resources and character. To ensure man-made slopes are as visually amenable as possible.	Government/ Developer/ Detailed Design Consultant/ Contractor	Modified slopes onsite	Prior to Construction, Construction Phase & Maintenance in Operation Phase	GEO publication (1999) – Use of Vegetation as Surface Protection on Slope; GEO Publication No. 1/2011-Technical Guidelines on Landscape Treatment for Slopes
Table 11.8	CM14	Integrate Open Space Network with existing nullah conditions For watercourses affected during construction, measures should be sought to minimise the impact with respect to the existing nullah conditions, existing shrubs and trees along the banks. Where natural streams are unavoidably affected along some of their length, they can be diverted to avoid the proposed new developments and retain the integrity of the whole stream. Detailed design of any stream diversion should follow the Guidelines in ETWB Technical Circular (Works) No. 5/2005 (Protection of natural streams/rivers from adverse impacts arising from construction works) and appropriate construction methods should be used.	Minimise / limit impacts on surrounding landscape and adjacent water sea areas	Government/ Developer/ Detailed Design Consultant/ Contractor	Watercourses affected during construction	Prior to Construction, Construction Phase & Maintenance in Operation Phase	ETWB TCW No. 5/2005 – Protection of natural streams/rivers from adverse impacts arising from construction works; DSD Practice Note No.1/2005, Guidelines on Environmental Considerations for River Channel Design

Project Implementation Schedule - Common Mitigation Measures (Applicable to ALL Project Components, including DPs and Non-DPs)							
Landscape and Visual (Construction [CM] and Operation [OM] Phases)							
EIA Ref.	**EM&A Ref.**	**Recommended Mitigation Measures**	**Objectives of the Recommended & Main Concerns to Address**	**Implementation Agent**	**Location of the Measure**	**Implementation Timing**	**Requirements and / or Standards to be Achieved**
Table 11.9	OM1*	<u>Compensatory tree planting where practical</u> Compensatory Planting – Compensatory tree planting for felled trees shall be provided to the satisfaction of relevant Government departments. Required numbers and locations of compensatory trees shall be determined and agreed separately with Government during the Tree Removal Application process under ETWBTC 7/2015. Compensatory planting is proposed at the potential open areas such as open spaces, amenity areas, open areas of the streetscapes, as well as the open areas within development lots. Tree compensation within the HSK NDA will be provided at a 1:1 ratio. This means that for every tree that is removed, a new one will be planted. Furthermore, trees affected by DPs will be compensated within their respective DP areas.	Compensate for felled trees to the satisfaction of relevant Government departments	CEDD (via Contractor)	Throughout NDA	Detailed design, construction stages through to maintenance in operation phase	Tree Removal Application process under DEVB TC(W) no.4/2020
Table 11.9	OM2	<u>Sensitive design of above-ground structures</u> All above-ground structures, including Sewage Pumping Stations, Electrical Sub-Stations, EFLS Stations, Emergency and Firemen's' Accesses, etc. shall be sensitively designed in a manner that responds to the existing and planned urban context. The footprint and massing of development components and the works area should also be kept to a practical minimum and the detailed design of development components for Construction phase should follow the Sustainable Building Design Guidelines. The form, textures, finishes and colours of the proposed development components should aim to be compatible with the existing surroundings. To improve visual amenity designs should be	Ensure aesthetically pleasing designs to improve visual amenity	CEDD / MTR / EFTS Operator	Above ground utility structure as listed	Detailed design, construction stages	

Project Implementation Schedule - Common Mitigation Measures (Applicable to ALL Project Components, including DPs and Non-DPs)							
Landscape and Visual (Construction [CM] and Operation [OM] Phases)							
EIA Ref.	**EM&A Ref.**	**Recommended Mitigation Measures**	**Objectives of the Recommended & Main Concerns to Address**	**Implementation Agent**	**Location of the Measure**	**Implementation Timing**	**Requirements and / or Standards to be Achieved**
		aesthetically pleasing and treatment of structures also improve visual amenity.					
Table 11.9	OM3*	Sensitive design of hardscape elements along roadsides Streetscape elements along new and existing roads (e.g. paving, signage, street furniture, lighting etc.) shall be sensitively designed in a manner that responds to the existing and planned urban context.	Ensure hardscape elements are sensitively designed and respond to planning context	CEDD (via Contractor)	Along roadsides	Detailed design, construction stages through to maintenance in operation phase	-
Table 11.9	OM4	Reinstatement of streetscape elements All streetscape areas and hard and soft landscape areas disturbed during construction shall be reinstated to equal or better quality, to the satisfaction of the relevant Government departments	Reinstate streetscapes to equal or better quality	CEDD (via Contractor)	All streetscape areas	Detailed design, construction stages through to maintenance in operation phase	DEVB TCW 2/2012
Table 11.9	OM5	Visual softening via soft landscape elements Attractive soft landscape in areas adjoining Sewage Pumping Stations, Electrical Sub-Stations, EFTS Stations, Emergency and Firemen's' Accesses, etc. (taking into account the necessary setbacks) so as to provide a visual softening and greening effect (e.g. provision of tree / shrub / climber planting).	Ensure aesthetically pleasing designs for utility structures to improve visual amenity	CEDD (via Contractor)	Utility structures as listed	Detailed design, construction stages through to maintenance in operation phase	DEVB TCW 2/2012
Table 11.9	OM6*	Quality greening along roadside amenity strips Shade trees, ornamental tree / shrub / climber planting should be provided along roadside amenity strips to enhance the townscape quality. Provision of utility free planting strips for quality planting shall be adopted according to DEVB TCW 2/2012	Provide pleasant roadside amenity to the benefit of patrons	CEDD (via Contractor)	Along roadsides	Detailed design, construction stages through to maintenance in operation phase	DEVB TCW 2/2012
Table 11.9	OM7*	Design of street lighting	Appropriate design to avoid	CEDD (via Contractor)	Along roadsides	Detailed design,	-

Project Implementation Schedule - Common Mitigation Measures (Applicable to ALL Project Components, including DPs and Non-DPs)							
Landscape and Visual (Construction [CM] and Operation [OM] Phases)							
EIA Ref.	**EM&A Ref.**	**Recommended Mitigation Measures**	**Objectives of the Recommended & Main Concerns to Address**	**Implementation Agent**	**Location of the Measure**	**Implementation Timing**	**Requirements and / or Standards to be Achieved**
		Appropriate design of street lighting to avoid glare and light pollution to surrounding areas.	glare and light pollution			construction stages	
Table 11.9	OM8	Sensitive and chromatic treatment of architectural facades Elegant architectural and engineering design, sensitive architectural and chromatic treatment for building facades. The form, textures, finishes and colours of the proposed development components should aim to be compatible with the existing surroundings. To improve visual amenity designs should be aesthetically pleasing and treatment of structures also improve visual amenity. For example, natural building materials such as stone and timber, should be considered for architectural features, and light earthy tone colours such as shades of green, shades of grey, shades of brown and off-white should also be considered to reduce the visibility of the development components.	Ensure aesthetically pleasing designs to improve visual amenity	ArchSD, Housing Department, Private Developer	Throughout NDA	Detailed design, construction stages	
Table 11.9	OM9	Sensitive design of landscape areas Elegant, sensitive design and generous planting of the associated landscape areas. Open Space Provision - the principles adopted in the RODP planning ensure that public open space systems are incorporated. All requirements for open space areas stipulated in the planning documents for the formulation of the Preliminary Layout Plan should be adhered to.	Incorporating Open Space Provision principles to improve landscape amenity	ArchSD, Housing Department, Private Developer	Throughout NDA	Detailed design, construction stages through to maintenance in operation phase	
Table 11.9	OM10	Sensitive design of vertical noise barriers and enclosures The visual impact of noise barriers & enclosures will be mitigated by appropriate detailed design, including suitable combination of transparent	Ensure aesthetically pleasing designs for noise barriers and enclosures	CEDD (via Contractor)	All noise barriers and enclosures	Detailed design, construction stages	

Project Implementation Schedule - Common Mitigation Measures (Applicable to ALL Project Components, including DPs and Non-DPs)							
Landscape and Visual (Construction [CM] and Operation [OM] Phases)							
EIA Ref.	**EM&A Ref.**	**Recommended Mitigation Measures**	**Objectives of the Recommended & Main Concerns to Address**	**Implementation Agent**	**Location of the Measure**	**Implementation Timing**	**Requirements and / or Standards to be Achieved**
		and sound absorbent materials, appropriate colour selection of panels and supporting structures, or provision of at-grade planting of trees, shrubs and/or climbers camouflage to the barriers, as well as design of supporting structures to incorporate a high level of quality and aesthetics. A combination of transparent panels at top and solid panels at bottom would lighten the visual impact, and at the same time maintain the attractiveness by using colourful panels.	to improve visual amenity				
Table 11.9	OM11	Tree planting to site boundaries Tree planting screens along appropriate site boundaries	Provide adequate screening with trees to improve visual amenity	CEDD (via Contractor)		Detailed design, construction stages through to maintenance in operation phase	
Table 11.9	OM12	Night time lighting Control of lighting glare. A balance between lighting for safety, and avoiding excessive lighting can be achieved through consideration of the following: the type of lamp (light source) used; use of directional lighting to avoid light spill into sensitive areas; height of the lighting column can affect the amount/extent of glare; and control/timing of lighting periods of some facilities, particularly those close to sites of conservation importance.	Appropriate design to avoid glare and light pollution	ArchSD, Housing Department, Private Developer	Throughout NDA	Detailed design, construction stages	
Table 11.9	OM13	Green roofs and vertical greening Green roofs and vertical greening provision of green roofs and vertical greening where feasible and appropriate to mitigate visual impacts of buildings and structures	Improve landscape amenity to assist in mitigating visual impacts of buildings and structures	Initiating Government Department, Private Developer	Throughout NDA	Detailed design, construction stages through to maintenance in operation phase	

Project Implementation Schedule - Common Mitigation Measures (Applicable to ALL Project Components, including DPs and Non-DPs)							
Landscape and Visual (Construction [CM] and Operation [OM] Phases)							
EIA Ref.	**EM&A Ref.**	**Recommended Mitigation Measures**	**Objectives of the Recommended & Main Concerns to Address**	**Implementation Agent**	**Location of the Measure**	**Implementation Timing**	**Requirements and / or Standards to be Achieved**
Table 11.9	OM14	Greening of viaduct structures and noise barriers Aesthetic improvement of viaduct structures and noise barriers through greening of structure where feasible and appropriate to mitigate visual impact of viaduct or noise barrier form.	Improve landscape amenity to assist in mitigating visual impacts of viaduct structure or noise barrier	CEDD (via Contractor)	All viaduct structures and noise barriers as feasible, final location to be confirmed at detailed design stage	Detailed design, construction stages through to maintenance in operation phase	

Remark: ***** represents CMs and OMs that are relevant to the Interim Section of Road D1 Works under Contract No. YL/2020/03.

Project Implementation Schedule - Common Mitigation Measures (Applicable to DP2 - Construction of eight new distributor roads (D1 to D8))							
Landscape and Visual (Construction [CM] and Operation [OM] Phases)							
EIA Ref.	**EM&A Ref.**	**Recommended Mitigation Measures**	**Objectives of the Recommended & Main Concerns to Address**	**Implementation Agent**	**Location of the Measure**	**Implementation Timing**	**Requirements and / or Standards to be Achieved**
Schedule 2 DP Package A – Table 11.6	CM1*	<u>Minimised construction area and contractor's temporary works areas</u> The construction area and contractor's temporary works areas should be minimised. General Good Practice Measures - For areas unavoidably disturbed by the Project on a short term basis e.g. works areas, the general principle to try and restore these to their former state to suit future land use, should be adhered to.	Minimise impacts on adjacent landscape	Government/ Developer/ Detailed Design Consultant/ Contractor	All construction areas and temporary works areas	Prior to construction, construction stages. This should be implemented as soon as the areas become available, to achieve early establishment	-
Schedule 2 DP Package A – Table 11.6	CM2*	<u>Stripping and storing of topsoil</u> Topsoil, where identified, should be stripped and stored for re-use in the construction of the soft landscape works, where practical. The Contract Specification shall include storage and reuse of topsoil as appropriate. On potentially contaminated sites (as per Section 8) where investigation results indicate soil contamination is present, the use of contaminated soils for planting is to be avoided where appropriate.	Minimise the loss of existing topsoil and reduce the need to provide imported material	Government/ Developer/ Detailed Design Consultant/ Contractor	All construction areas	Detailed design, construction stages	-
Schedule 2 DP Package A – Table 11.6	CM3*	<u>Protection of existing trees</u> Tree Protection & Preservation – Exiting trees to be retained within the Project Site should be carefully protected during construction. Detailed Tree Protection Specification shall be provided in the Contract Specification. Under this specification, the Contractor shall be required to submit, for approval, a detailed working method statement for the protection of trees prior to undertaking any works adjacent to all retained trees,	Protect and Preserve Trees	Government/ Developer/ Detailed Design Consultant/ Contractor	On site	Detailed design, construction stages	ETWB Technical Circular Works (TCW) No. 29/2004 and 3/2006

Project Implementation Schedule - Common Mitigation Measures (Applicable to DP2 - Construction of eight new distributor roads (D1 to D8))							
Landscape and Visual (Construction [CM] and Operation [OM] Phases)							
EIA Ref.	**EM&A Ref.**	**Recommended Mitigation Measures**	**Objectives of the Recommended & Main Concerns to Address**	**Implementation Agent**	**Location of the Measure**	**Implementation Timing**	**Requirements and / or Standards to be Achieved**
		including trees in Contractor's works areas. A detailed tree survey will be carried out for the Tree Removal Application (TRA) process which will be carried out at the later detailed design stage of the Project. The detailed tree survey will propose which trees should be retained, transplanted or felled and will include details of tree protection measures for those trees to be retained.					
Schedule 2 DP Package A – Table 11.6	CM4	<u>Transplantation of existing trees where practical</u> Trees unavoidably affected by the Project works should be transplanted where practical. Trees should be transplanted straight to their final receptor site and not held in a temporary nursery as far as possible. A detailed Tree Transplanting Specification shall be provided in the Contract Specification, where applicable. Sufficient time for necessary tree root and crown preparation periods shall be allowed in the project programme. A detailed transplanting proposal will be submitted to relevant government departments for approval in accordance with ETWBTC 2/2004 and 3/2006 and final locations of transplanted trees should be agreed prior to commencement of the work.	Transplant Trees where suitable for transplantation	Government/ Developer/ Detailed Design Consultant/ Contractor	Onsite where possible. Otherwise consider offsite locations	Prior to Construction, Construction Phase & Maintenance in Operation Phase	ETWB TCW 3/2006 and 2/2004 HyD HQ/GN/13 Interim Guidelines for Tree Transplanting Works under Highways Department's Vegetation Maintenance Ambit
Schedule 2 DP Package A – Table 11.6	CM5*	<u>Control of night-time lighting</u> Control of night-time lighting and glare by hooding all lights. Construction day and night time lighting should be controlled to minimise glare	Minimise impact of night-time lighting and glare	Government/ Developer/ Contractor	All construction areas and temporary works areas	Construction stage	-

Project Implementation Schedule - Common Mitigation Measures (Applicable to DP2 - Construction of eight new distributor roads (D1 to D8))							
Landscape and Visual (Construction [CM] and Operation [OM] Phases)							
EIA Ref.	**EM&A Ref.**	**Recommended Mitigation Measures**	**Objectives of the Recommended & Main Concerns to Address**	**Implementation Agent**	**Location of the Measure**	**Implementation Timing**	**Requirements and / or Standards to be Achieved**
		impact to adjacent VSRs during the Construction phase.					
Schedule 2 DP Package A – Table 11.6	CM6*	<u>Construction of decorative hoarding around construction works</u> Erection of decorative mesh screens or construction hoardings around works areas in visually unobtrusive colours. Screen hoarding shall be erected along areas of the construction works site boundary where the works site borders publically accessible routes and/or is close to visually sensitive receivers (VSRs). It is proposed that the screening be compatible with the surrounding environment and where possible, non-reflective, recessive colours be used.	To screen undesirable views of the works site.	Contractor	All construction areas and temporary works areas	Construction stage	
Schedule 2 DP Package A – Table 11.6	CM7*	<u>Reduction of construction period to practical minimum</u> Options to reduce the construction period to practical minimum to be provided.	Minimise length of exposure to construction works	Government/ Developer/ Detailed Design Consultant/ Contractor	All construction areas and temporary works areas	Construction stage	
Schedule 2 DP Package A – Table 11.6	CM8*	<u>Prevention of run-off</u> Limitation of / Ensuring no run-off into surrounding landscape and prohibit run-off from entering adjacent water bodies and waterways Refer to guidelines.	Minimise / limit impacts on surrounding landscape and adjacent water sea areas	Government/ Developer/ Detailed Design Consultant/ Contractor	All construction areas and temporary works areas	Construction stage	Guidelines for this include ETWB Technical Circular (Works) No. 5/2005 Protection of natural streams/rivers from adverse impacts arising from construction works; Building Department (BD) Practice Note for Authorised Persons and Registered

Project Implementation Schedule - Common Mitigation Measures (Applicable to DP2 - Construction of eight new distributor roads (D1 to D8))							
Landscape and Visual (Construction [CM] and Operation [OM] Phases)							
EIA Ref.	**EM&A Ref.**	**Recommended Mitigation Measures**	**Objectives of the Recommended & Main Concerns to Address**	**Implementation Agent**	**Location of the Measure**	**Implementation Timing**	**Requirements and / or Standards to be Achieved**
							Structural Engineers 295: Protection of natural streams/rivers from adverse impacts arising from construction works
Schedule 2 DP Package A – Table 11.6	CM9*	Phasing of construction stage Phasing of the construction stage to reduce visual impacts.	Minimise visual impacts during the construction phase	Government/ Developer/ Detailed Design Consultant/ Contractor	All construction areas and temporary works areas	Construction stage	
Schedule 2 DP Package A – Table 11.6	CM10	Advance screen planting Advance screen planting of fast growing tree and shrub species to noise barriers and hoardings. Trees shall be capable of reaching a height >10m within 10 years.	Minimise length of exposure without long term mitigation measures	Government/ Developer/ Detailed Design Consultant/ Contractor	Areas adjacent to noise barriers and hoardings	Detailed design, construction stages	ETWB TCW 3/2006 and 2/2004
Schedule 2 DP Package A – Table 11.6	CM11*	Minimise disturbance footprints To minimise landscape and visual impacts, the footprint and elevation of such elements should be optimised to reduce topographical/ landform changes, as well as reduce land take and interference with natural terrain. Where there is a need to significantly cut into the existing landform, retaining walls should be considered as well as cut slopes, to minimise landform changes and land resumption, while also considering visual amenity. Earthworks and engineered slopes should be designed to be a visually interesting landform, compatible with the surrounding landscape and to mimic the natural contouring and terrain e.g. introduction and continuation of natural features such as spurs and ridges	Reduce topographical changes and minimise land resumption	Government/ Developer/ Detailed Design Consultant/ Contractor	Throughout NDA	Detailed design, construction stages	GEO Publication No. 1/2011, Technical Guidelines on Landscape Treatment on Slopes

Project Implementation Schedule - Common Mitigation Measures (Applicable to DP2 - Construction of eight new distributor roads (D1 to D8))							
Landscape and Visual (Construction [CM] and Operation [OM] Phases)							
EIA Ref.	**EM&A Ref.**	**Recommended Mitigation Measures**	**Objectives of the Recommended & Main Concerns to Address**	**Implementation Agent**	**Location of the Measure**	**Implementation Timing**	**Requirements and / or Standards to be Achieved**
		where appropriate, to support assimilation with the hillside setting.					
Schedule 2 DP Package A – Table 11.6	CM12	<u>Protection of existing water courses</u> For all the natural rivers and streams inside the development area, consideration of protection measures should be made to minimise any impacts from the construction works. Avoid affecting Watercourses – In the detailed design, consideration should be made of watercourses, to minimise any impacts e.g. at new bridge crossings, viaducts, road alignment etc. Guidelines stated should be followed. Bridges and box culverts should also be used to minimise the necessity of watercourse modification and protect the watercourses where necessary.	Avoid direct impacts to watercourses	Detailed Design Consultant/ Contractor	All natural rivers and streams inside development area	Detailed design, construction stages	Guidelines for this include ETWB Technical Circular (Works) No. 5/2005 Protection of natural streams/rivers from adverse impacts arising from construction works; Building Department (BD) Practice Note for Authorised Persons and Registered Structural Engineers 295: Protection of natural streams/rivers from adverse mpacts arising from construction works
Schedule 2 DP Package A – Table 11.6	CM13*	<u>Hydroseeding on modified slopes</u> Hydroseeding of modified slopes should be done as soon as grading works are completed to prevent erosion and subsequent loss of landscape resources and character. Woodland tree seedlings and/ or shrubs should be planted where slope gradient and site conditions allow. In addition, landscape planting should be provided for the retaining structures associated with modified slopes where conditions allow. All slope landscaping works should comply with GEO Publication No. 1/2011-	To prevent erosion and subsequent loss of landscape resources and character. To ensure man-made slopes are as visually amenable as possible.	Government/ Developer/ Detailed Design Consultant/ Contractor	Modified slopes onsite	Prior to Construction, Construction Phase & Maintenance in Operation Phase	GEO publication (1999) – Use of Vegetation as Surface Protection on Slope; GEO Publication No. 1/2011- Technical Guidelines on Landscape Treatment for Slopes

Project Implementation Schedule - Common Mitigation Measures (Applicable to DP2 - Construction of eight new distributor roads (D1 to D8))							
Landscape and Visual (Construction [CM] and Operation [OM] Phases)							
EIA Ref.	**EM&A Ref.**	**Recommended Mitigation Measures**	**Objectives of the Recommended & Main Concerns to Address**	**Implementation Agent**	**Location of the Measure**	**Implementation Timing**	**Requirements and / or Standards to be Achieved**
		Technical Guidelines on Landscape Treatment for Slopes.					
Schedule 2 DP Package A – Table 11.6	CM14	<u>Integrate Open Space Network with existing nullah conditions</u> For watercourses affected during construction, measures should be sought to minimise the impact with respect to the existing nullah conditions, existing shrubs and trees along the banks.	Minimise / limit impacts on surrounding landscape and adjacent water sea areas	Government/ Developer/ Detailed Design Consultant/ Contractor	Watercourses affected during construction	Prior to Construction, Construction Phase & Maintenance in Operation Phase	ETWB TCW No. 5/2005 – Protection of natural streams/rivers from adverse impacts arising from construction works; DSD Practice Note No.1/2005, Guidelines on Environmental Considerations for River Channel Design
Schedule 2 DP Package A – Table 11.7	OM1*	<u>Compensatory tree planting where practical</u> Compensatory Planting – Compensatory tree planting for felled trees shall be provided to the satisfaction of relevant Government departments. Required numbers and locations of compensatory trees shall be determined and agreed separately with Government during the Tree Removal Application process under ETWBTC 3/2006. Compensatory planting is proposed at the potential open areas such as open spaces, amenity areas, open areas of the streetscapes, as well as the open areas within development lots. Tree compensation within the HSK NDA will be provided at a 1:1 ratio. This means that for every tree that is removed, a new one will be planted. Furthermore, trees affected by DPs will be compensated within their respective DP areas.	Compensate for trees and shrubs lost due to the Project.	Government / Developer/ Detailed Design Consultant/ Contractor	Onsite where possible. Otherwise consider offsite locations	Prior to Construction, Construction Phase & Maintenance in Operation Phase	

Project Implementation Schedule - Common Mitigation Measures (Applicable to DP2 - Construction of eight new distributor roads (D1 to D8))							
Landscape and Visual (Construction [CM] and Operation [OM] Phases)							
EIA Ref.	**EM&A Ref.**	**Recommended Mitigation Measures**	**Objectives of the Recommended & Main Concerns to Address**	**Implementation Agent**	**Location of the Measure**	**Implementation Timing**	**Requirements and / or Standards to be Achieved**
Schedule 2 DP Package A – Table 11.7	OM2	<u>Sensitive design of above-ground structures</u> All above-ground structures, including SPSs, Electrical Sub-Stations, EFLS Stations, Emergency and Firemens' Accesses, etc. shall be sensitively designed in a manner that responds to the existing and planned urban context. The footprint and massing of development components and the works area should also be kept to a practical minimum and the detailed design of development components for Construction phase should follow the Sustainable Building Design Guidelines. The form, textures, finishes and colours of the proposed development components should aim to be compatible with the existing surroundings. To improve visual amenity designs should be aesthetically pleasing and treatment of structures also improve visual amenity.	Improve visual amenity of the new buildings, NDAs in general and integrate as best possible into the surrounding landscape	Detailed Design Consultant	Throughout NDA	Prior to construction	Schedule 2 DP Package A – Table 11.7
Schedule 2 DP Package A – Table 11.7	OM3*	<u>Sensitive design of hardscape elements along roadsides</u> Streetscape elements along new and existing roads (e.g. paving, signage, street furniture, lighting etc.) shall be sensitively designed in a manner that responds to the existing and planned urban context.	Minimise potential adverse landscape and visual impacts	Government / Developer/ Detailed Design Consultant/ Contractor	Streetscapes	Detailed design, construction and establishment works stages	
\Schedule 2 DP Package A – Table 11.7	OM4	<u>Reinstatement of streetscape elements</u> All streetscape areas and hard and soft landscape areas disturbed during construction shall be reinstated to equal or better quality, to the satisfaction of the relevant Government	Compensate for impacts on existing landscape, reinstating to equal or better quality	Government / Developer/ Detailed Design Consultant/ Contractor	Streetscape and hard and soft landscape areas	Detailed design, construction and establishment works stages	

Project Implementation Schedule - Common Mitigation Measures (Applicable to DP2 - Construction of eight new distributor roads (D1 to D8))							
Landscape and Visual (Construction [CM] and Operation [OM] Phases)							
EIA Ref.	**EM&A Ref.**	**Recommended Mitigation Measures**	**Objectives of the Recommended & Main Concerns to Address**	**Implementation Agent**	**Location of the Measure**	**Implementation Timing**	**Requirements and / or Standards to be Achieved**
		departments.					
\Schedule 2 DP Package A – Table 11.7	OM6*	Quality greening along roadside amenity strips Shade trees, ornamental tree / shrub / climber planting should be provided along roadside amenity strips to enhance the townscape quality.	Compensate for impacts on existing landscape, reinstating to equal or better quality	Government / Developer/ Detailed Design Consultant/ Contractor	Along roadside amenity	Detailed design, construction and establishment works stages	Provision of utlitiy free planting strips for quality planting shall be adopted according to DEVB TCW 2/2012.
Schedule 2 DP Package A – Table 11.7	OM7*	Design of street lighting Appropriate design of street lighting to avoid glare and light pollution to surrounding areas.	Minimise potential adverse landscape and visual impacts	Detailed Design Consultant	Streetscapes	Detailed design stage	-
Schedule 2 DP Package A – Table 11.7	OM8	Sensitive and chromatic treatment of architectural facades Elegant architectural and engineering design, sensitive architectural and chromatic treatment for building facades. The form, textures, finishes and colours of the proposed development components should aim to be compatible with the existing surroundings. To improve visual amenity designs should be aesthetically pleasing and treatment of structures also improve visual amenity. For example, natural building materials such as stone and timber, should be considered for architectural features, and light earthy tone colours such as shades of green, shades of grey, shades of brown and off-white should also be considered to reduce the visibility of the development components.	Minimise potential adverse landscape and visual impacts	Government/ Developer/ Detailed Design Consultant	All development areas	Detailed design stage	
Schedule 2 DP Package A – Table 11.7	OM9	Sensitive design of landscape areas Elegant, sensitive design and generous planting of the associated landscape areas.	Compensate for impacts on existing landscape,	Government/ Developer/ Detailed Design Consultant/ Contractor	All development areas	Detailed design stage	Hong Kong Planning Standards and

Project Implementation Schedule - Common Mitigation Measures (Applicable to DP2 - Construction of eight new distributor roads (D1 to D8))							
Landscape and Visual (Construction [CM] and Operation [OM] Phases)							
EIA Ref.	**EM&A Ref.**	**Recommended Mitigation Measures**	**Objectives of the Recommended & Main Concerns to Address**	**Implementation Agent**	**Location of the Measure**	**Implementation Timing**	**Requirements and / or Standards to be Achieved**
		Open Space Provision - the principles adopted in the Revised RODP planning ensure that public open space systems are incorporated. All requirements for open space areas stipulated in the planning documents for the formulation of the Preliminary Layout Plan should be adhered to.	reinstating to equal or better quality Reprovision of open space. Enhance visual amenity of the area and improve the overall landscape character				Guidelines (HKPSG) issued by the Planning Department (As at Aug 2011); Sustainable Building Design Guidelines
Schedule 2 DP Package A – Table 11.7	OM10	<u>Sensitive design of vertical noise barriers and enclosures</u> The visual impact of noise barriers & enclosures will be mitigated by appropriate detailed design, including suitable combination of transparent and sound absorbent materials, appropriate colour selection of panels and supporting structures, or provision of at-grade planting of trees, shrubs and/or climbers camouflage to the barriers, as well as design of supporting structures to incorporate a high level of quality and aesthetics. A combination of transparent panels at top and solid panels at bottom would lighten the visual impact, and at the same time maintain the attractiveness by using colourful panels.	Minimise potential adverse landscape and visual impacts	Government (via Contractor)	Noise barriers and enclosures	Detailed design stage	Greening, Landscape and Tree Management Section (GLTM) of the Development Bureau's Guidelines on Greening of Noise Barriers (April 2012) Dev. Bureau, Greening, Landscaping & Tree Management Section, Guidelines on Greening of Noise Barriers (April 2012)
Schedule 2 DP Package A – Table 11.7	OM12	<u>Night time lighting</u> Control of lighting glare. A balance between lighting for safety, and avoiding excessive lighting can be achieved through consideration of the following: the type of lamp (light source) used; use of	Minimise potential adverse landscape and visual impacts	Government/ Developer	All areas with lighting	Detailed design, construction and establishment works stages	

Project Implementation Schedule - Common Mitigation Measures (Applicable to DP2 - Construction of eight new distributor roads (D1 to D8))							
Landscape and Visual (Construction [CM] and Operation [OM] Phases)							
EIA Ref.	**EM&A Ref.**	**Recommended Mitigation Measures**	**Objectives of the Recommended & Main Concerns to Address**	**Implementation Agent**	**Location of the Measure**	**Implementation Timing**	**Requirements and / or Standards to be Achieved**
		directional lighting to avoid light spill into sensitive areas; height of the lighting column can affect the amount/extent of glare; and control/timing of lighting periods of some facilities, particularly those close to sites of conservation importance.					

Remark: ***** represents CMs and OMs that are relevant to the Interim Section of Road D1 Works under Contract No. YL/2020/03.

APPENDIX K – APPROVAL MEMO OF TPRP (REV.6)

By Fax & Dispatch

MEMO

From	Chief Estate Surveyor/New Development Area Lands Department	*To*	Project Manager (West), CEDD
Ref.	(12) *in* LD NDA/HSK/PD/24 Pt. 3	*(Attn.:*	*Dennis K H CHAN)*
Tel. No.	3582 3867	*Your Ref.*	( ) *In* CEDD-WDO-30-4235-5616-36
Fax. No.	3565 4270	*dated*	14 December 2021
Email	slep5@landsd.gov.hk	*Fax. No.*	2693 2918
Date	31 December 2021	*Total Pages*	2

Agreement No. CE 56/2016 (CE)
Hung Shui Kiu / Ha Tsuen New Development Area Stage 1 Works
Site formation and engineering infrastructure

Tree Preservation and Removal Proposal (Rev. 4)

I refer to the submission of Tree Preservation and Removal Proposal (Rev. 4) ("the Report") via the memo under reference and the letter with reference no. SHC/LL/JC/380288/6.1.20/L-0479 from your consultant, Mott MacDonald, dated 25 November 2021.

2. Given that the relevant departments have no adverse comment on the Report, I am pleased to inform you that approval is hereby given to you for felling 386 nos. of trees as stated in para. 4.3.1 in p.12 of the Report and transplanting 1 no. of tree as stated in para. 5.1.1 in p.13 of the Report which would be in conflict with the works of the captioned project.

3. I reiterate that, in no event, LandsD will take up any maintenance responsibility of future maintenance of the trees to be planted on the unleased and unallocated Government land as a result of commissioning of the captioned project. In this connection, CEDD is required to take up the maintenance responsibility of the compensatory trees unless and until CEDD can identify and agree with the appropriate maintenance agent(s) to take up the future regular maintenance of such trees. Should there be any change of maintenance responsibility for taking care of compensatory trees, please inform this office accordingly.

(Nelson NG)
for Chief Estate Surveyor/New Development Area
Lands Department

c.c.

Landscape Division, CEDD	(Attn: Benni PONG)
CE/MN, DSD	(Attn.: SZE Chung-ming, Thomson)
CHE/NTW, HyD	(Attn.: Terry Y C SHIH)
DFEH	(Attn.: LAM Siu-ping)
DLCS	(Attn.: Marian LAU)
DPO/TM&YLW	(Attn.: Natalie CHAN)
DO/YL	(Attn.: Bernice FUNG)
DAFC	(Attn.: Azaria K.Y. WONG)
CE/Lighting, HyD	(Attn.: Jason WONG)
CLA, HyD	(Attn.: Michelle HO)

Urgent by Fax

MEMO

From Chairperson, CEDD Tree Works Vetting Panel C	*To* E/22(W), WDO, CEDD
Ref. ( ) *in* CEDD-T-65-1215-4-710	*(Attn.:* Mr. CHENG Kin Fung, Hivan)
Tel. No. 2762 5004	*Your Ref.* ( ) *in* CEDD WDO-30-4235-5616-1
Fax. No. 2760 9401	*dated* 16 October 2023 *Fax. No.* 2693 2918
Date 18 December 2023	*Total Pages* 2

CEDD Tree Works Vetting Panel C
TWVP Case No. 298#R1
"Amendment to TPRP Originally Approved by LandsD" (1st Resubmission)
Hung Shui Kiu New Development Area Stage 1 Works –
Site Formation and Engineering Infrastructure Works

Project Title	:	PWP Item No. 7796CL
Agreement No.		CE 56/2016 (CE)
Contract No.	:	YL/2020/03
Agreement/ Contract Title	:	Hung Shui Kiu New Development Area Stage 1 Works – Design and Construction
Location	:	Site 3-6, Hung Shui Kiu/Ha Tsuen New Development Area

I refer to the captioned Tree Preservation and Removal Proposal (TPRP) comprising the report titled "Amendment to the Approved TPRP (Revision no.: 6)" via your memo ref. ( ) in CEDD WDO-30-4235-5616-1 dated 16 October 2023, and supplementary information via emails dated 2 November 2023 and 12 December 2023. This above-mentioned revised submission, subsequent to the originally approved "Amendment to TPRP originally approved by LandsD" via approval memo ref. (9) in CEDD-T-65-1215-4-710 dated 2 August 2023, includes proposal for:

(i) Removal of 597 no. of trees as shown on the Plan of Tree Survey (Before Works) (Plan No. YL/2020/03/CGC/ATPRP/001 to /024, Rev.V5) and recorded in the Tree Assessment Schedule.

2. According to para. 25 of DEVB TC(W) No. 4/2020, please note that TPRP is not necessary for removal of the therein stated undesirable species (i.e. 169 no. of *Leucaena leucocephala*, which is an invasive, exotic and self-seeding tree) and 46 no. of dead trees; a total of 215 no. as recorded in the Tree Assessment Schedule - Appendix G.

3. Pursuant to the CEDD TC No. 03/2022, the CEDD Tree Works Vetting Panel C has reviewed the above-listed information and considered the captioned submission is **acceptable. I hereby approve the captioned submission.**

4. Your attention is drawn to paragraph 21 in CEDD TC No. 03/2022 Appendix C and paragraph 47 in DEVB TC(W) No. 4/2020, both of which set out the requirements for reporting of completion. Please take note for compliance.

5. The TWVP has noted that a compensatory planting proposal has been provided in the submission and is in line with the previous TPRP submission approved by LandsD via memo ref. (12) in LD NDA/HSK/PD/24 Pt.3 dated 31 December 2021.

.../ 2

6. The project team shall also take note of the following **advisory remarks**: -

(i) In light of the complexity of the project and implementation/completion by phases over a long period of time, the project team shall develop a proper register/recording system to keep track of all the follow-up submissions including any change or subsequent approval by the relevant TWVPs (in a chronological order) of various portion of the Site (i.e. TWVP Case No. 298#), also detailed with a summary of quantity of trees to be transplanted or preserved on site, proposed tree compensation, and respective locations/portions/contracts involved, includes site records. Such a table / summary list shall be appended and provided in all of upcoming submissions for ease of reference and for record purpose as well as to facilitate audit/compliance checking, if any in future.

(ii) The project team shall fulfil requirements in paragraph 23 of DEVB TC(W) No. 4/2020 – Tree Preservation, i.e. *"The actual tree removal works, transplanting and compensatory planting should adhere to those approved in the TPRPs and compensatory planting proposals, if any. The completion of the TPRPs should be reported to the relevant TWVPs for record"*.

(iii) Any approval or acceptance by CEDD TWVPs regarding your submission/re-submission (including respective completion reports) shall not be construed as exemption, permission, acceptance, approval or compliance with any statutory regulations or ordinances.

(iv) The project team shall make and keep retrievable documentary records (including but not limited to plans, site photos, relevant correspondences with concerned parties/departments, etc.) of all site works related to the approved TPRP since GLTMS/DEVB may carry out audits under DEVB TC(W) No. 4/2020 from time to time.

(v) Project team is reminded to carry out the approved TPRP in compliance with other tree related guidelines and Tree Management Practice Notes promulgated by DEVB.

(vi) The project team shall duly consult relevant departments (such as EPD) in order to implement sorting, appropriate disposal of and/or proper treatment (re-cycling/upcycling) of yard waste (cut wood generated) under the works contract(s) concerned. Reference shall also be made to the latest version of the *Guidelines on Handling Yard Waste for Recycling and Disposal* and *the Guidelines on Yard Waste Reduction and Treatment* promulgated by EPD and GLTMS/DEVB respectively.

(Dr. KWAN Shun Hang, Julian)
Chairperson
CEDD Tree Works Vetting Panel C

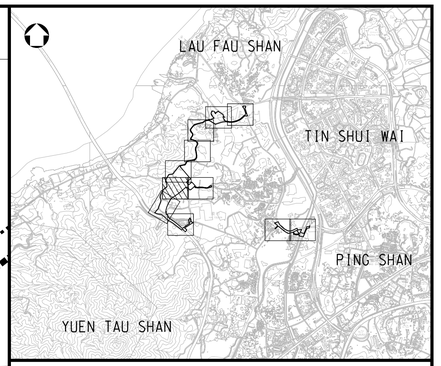
c.c. Members of CEDD Tree Works Vetting Panel C

CLA/HQ (Atg.)	(Attn.:	Ms. TSANG Hang Lun, Helen	)	on file
SLA/HQ3	(Attn.:	Ms. TONG Chui Shan, Sandy	)	on file
SE/5(P), CEO	(Attn.:	Mr. KEA Tak Lai, Terry	)	by fax only (3919 8685)
LAA/HQ8, FdOI(5)				on file

JK/HT/ST/JC/jk

Appendix L – LIGHT POLES AND SIGHT DISTANCE





KEY PLAN

NOTES:

FOR GENERAL NOTES, REFER TO DRAWING NO. 380288/UU/PG/0001.

LEGEND:

- SITE BOUNDARY
- PROPOSED SITE
- EXISTING UNDERGROUND PUBLIC LIGHTING CABLE
- PROPOSED UNDERGROUND PUBLIC LIGHTING CABLE (01)
- PROPOSED 100mm I.D. uPVC DUCTING WITH UNDERGROUND PUBLIC LIGHTING CABLE
- EXISTING UNDERGROUND PUBLIC LIGHTING CABLE TO BE DEMOLISHED
- SINGLE-ARM PUBLIC LIGHTING COLUMN
- DOUBLE-ARM PUBLIC LIGHTING COLUMN
- A1 — 28W LED LUMINATE LAMP POLE AT 3m
- B3 — 70W LED LUMINATE LAMP POLE AT 10m
- B3 B3 — 2x70W LED LUMINATE LAMP POLE AT 10m
- A1 B3 — 28W LED LUMINATE LAMP POLE AT 3m AND 70W LED LUMINATE LAMP POLE AT 10m
- PILLAR BOX
- 500(W) x 500(L) x 600(D) CABLE DRAW PIT

Rev	Date	Drawn	Description	Ch'k'd	App'd
01	NOV 20	LUN	TENDER ADDENDUM NO.2		
0	OCT 20	LUN	ISSUE FOR TENDER	LL	SHC

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Client

CEDD

CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

Project

CONTRACT NO. YL/2020/03
HUNG SHUI KIU / HA TSUEN NEW DEVELOPMENT AREA
STAGE 1 WORKS - SITE FORMATION AND ENGINEERING INFRASTRUCTURE

Title

UTILITIES - PUBLIC LIGHTING (SHEET 2 OF 3)

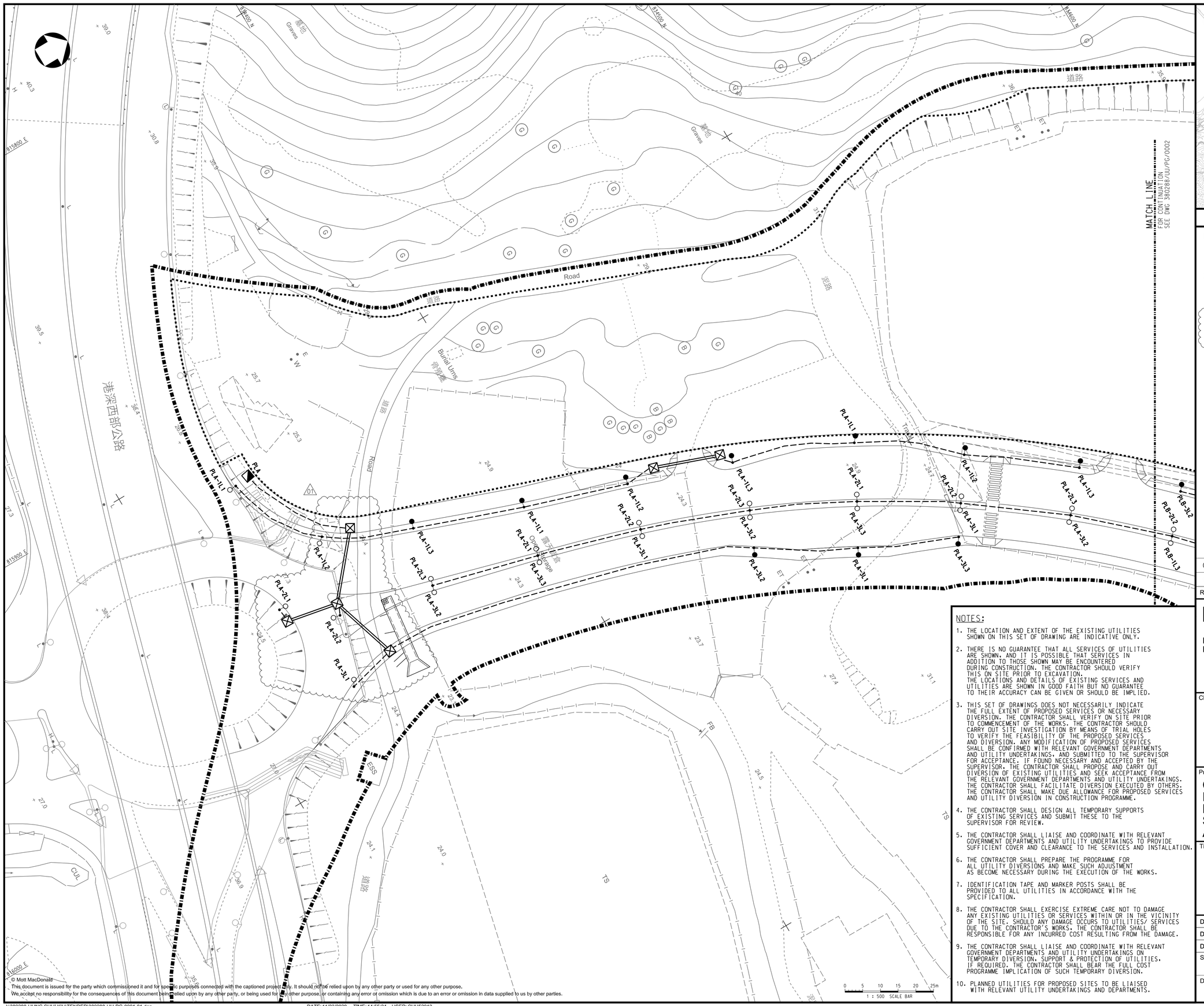
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Drawn	LUN	LUN	Coordination	SL	
Dwg check	YK		Approved	SHC	

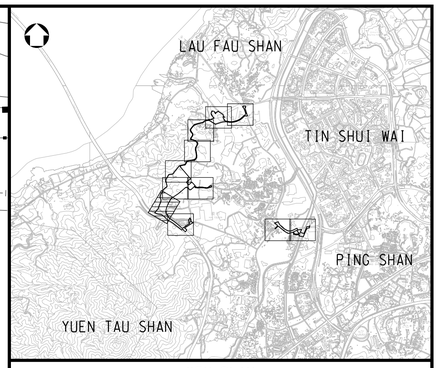
Scale at A1: 1:500 | Status: TEN | Rev: 01

Drawing Number: 380288/UU/PG/0002

0 5 10 15 20 25m
1 : 500 SCALE BAR

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KEY PLAN

LEGEND:

- SITE BOUNDARY
- PROPOSED SITE
- EXISTING UNDERGROUND PUBLIC LIGHTING CABLE
- PROPOSED UNDERGROUND PUBLIC LIGHTING CABLE
- PROPOSED 100mm I.D. uPVC DUCTING WITH UNDERGROUND PUBLIC LIGHTING CABLE
- EXISTING UNDERGROUND PUBLIC LIGHTING CABLE TO BE DEMOLISHED
- SINGLE-ARM PUBLIC LIGHTING COLUMN
- DOUBLE-ARM PUBLIC LIGHTING COLUMN
- A1 — 28W LED LUMINATE LAMP POLE AT 3m
- B3 — 70W LED LUMINATE LAMP POLE AT 10m
- B3 B3 — 2x70W LED LUMINATE LAMP POLE AT 10m
- A1 B3 — 28W LED LUMINATE LAMP POLE AT 3m AND 70W LED LUMINATE LAMP POLE AT 10m
- PILLAR BOX
- 500(W) x 500(L) x 600(D) CABLE DRAW PIT

Rev	Date	Drawn	Description	Ch'k'd	App'd
01	NOV 20	LUN	TENDER ADDENDUM NO.2		
0	OCT 20	LUN	ISSUE FOR TENDER	LL	SHC

NOTES:

1. THE LOCATION AND EXTENT OF THE EXISTING UTILITIES SHOWN ON THIS SET OF DRAWING ARE INDICATIVE ONLY.
2. THERE IS NO GUARANTEE THAT ALL SERVICES OF UTILITIES ARE SHOWN, AND IT IS POSSIBLE THAT SERVICES IN ADDITION TO THOSE SHOWN MAY BE ENCOUNTERED DURING CONSTRUCTION. THE CONTRACTOR SHOULD VERIFY THIS ON SITE PRIOR TO EXCAVATION. THE LOCATIONS AND DETAILS OF EXISTING SERVICES AND UTILITIES ARE SHOWN IN GOOD FAITH BUT NO GUARANTEE TO THEIR ACCURACY CAN BE GIVEN OR SHOULD BE IMPLIED.
3. THIS SET OF DRAWINGS DOES NOT NECESSARILY INDICATE THE FULL EXTENT OF PROPOSED SERVICES OR NECESSARY DIVERSION. THE CONTRACTOR SHALL VERIFY ON SITE PRIOR TO COMMENCEMENT OF THE WORKS. THE CONTRACTOR SHOULD CARRY OUT SITE INVESTIGATION BY MEANS OF TRIAL HOLES TO VERIFY THE FEASIBILITY OF THE PROPOSED SERVICES AND DIVERSION. ANY MODIFICATION OF PROPOSED SERVICES SHALL BE CONFIRMED WITH RELEVANT GOVERNMENT DEPARTMENTS AND UTILITY UNDERTAKINGS, AND SUBMITTED TO THE SUPERVISOR FOR ACCEPTANCE. IF FOUND NECESSARY AND ACCEPTED BY THE SUPERVISOR, THE CONTRACTOR SHALL PROPOSE AND CARRY OUT DIVERSION OF EXISTING UTILITIES AND SEEK ACCEPTANCE FROM THE RELEVANT GOVERNMENT DEPARTMENTS AND UTILITY UNDERTAKINGS. THE CONTRACTOR SHALL FACILITATE DIVERSION EXECUTED BY OTHERS. THE CONTRACTOR SHALL MAKE DUE ALLOWANCE FOR PROPOSED SERVICES AND UTILITY DIVERSION IN CONSTRUCTION PROGRAMME.
4. THE CONTRACTOR SHALL DESIGN ALL TEMPORARY SUPPORTS OF EXISTING SERVICES AND SUBMIT THESE TO THE SUPERVISOR FOR REVIEW.
5. THE CONTRACTOR SHALL LIAISE AND COORDINATE WITH RELEVANT GOVERNMENT DEPARTMENTS AND UTILITY UNDERTAKINGS TO PROVIDE SUFFICIENT COVER AND CLEARANCE TO THE SERVICES AND INSTALLATION.
6. THE CONTRACTOR SHALL PREPARE THE PROGRAMME FOR ALL UTILITY DIVERSIONS AND MAKE SUCH ADJUSTMENT AS BECOME NECESSARY DURING THE EXECUTION OF THE WORKS.
7. IDENTIFICATION TAPE AND MARKER POSTS SHALL BE PROVIDED TO ALL UTILITIES IN ACCORDANCE WITH THE SPECIFICATION.
8. THE CONTRACTOR SHALL EXERCISE EXTREME CARE NOT TO DAMAGE ANY EXISTING UTILITIES OR SERVICES WITHIN OR IN THE VICINITY OF THE SITE. SHOULD ANY DAMAGE OCCURS TO UTILITIES/ SERVICES DUE TO THE CONTRACTOR'S WORKS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY INCURRED COST RESULTING FROM THE DAMAGE.
9. THE CONTRACTOR SHALL LIAISE AND COORDINATE WITH RELEVANT GOVERNMENT DEPARTMENTS AND UTILITY UNDERTAKINGS ON TEMPORARY DIVERSION, SUPPORT & PROTECTION OF UTILITIES, IF REQUIRED. THE CONTRACTOR SHALL BEAR THE FULL COST PROGRAMME IMPLICATION OF SUCH TEMPORARY DIVERSION.
10. PLANNED UTILITIES FOR PROPOSED SITES TO BE LIAISED WITH RELEVANT UTILITY UNDERTAKINGS AND DEPARTMENTS.

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Client

CEDD
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

Project

CONTRACT NO. YL/2020/03
HUNG SHUI KIU / HA TSUEN NEW DEVELOPMENT AREA
STAGE 1 WORKS - SITE FORMATION AND ENGINEERING INFRASTRUCTURE

Title

UTILITIES - PUBLIC LIGHTING
(SHEET 1 OF 3)

Designed	SL		Eng check	LL	
Drawn	LUN	LUN	Coordination	SL	
Dwg check	YK		Approved	SHC	
Scale at A1	1:500	Status	TEN	Rev	01

Drawing Number
380288/UU/PG/0001

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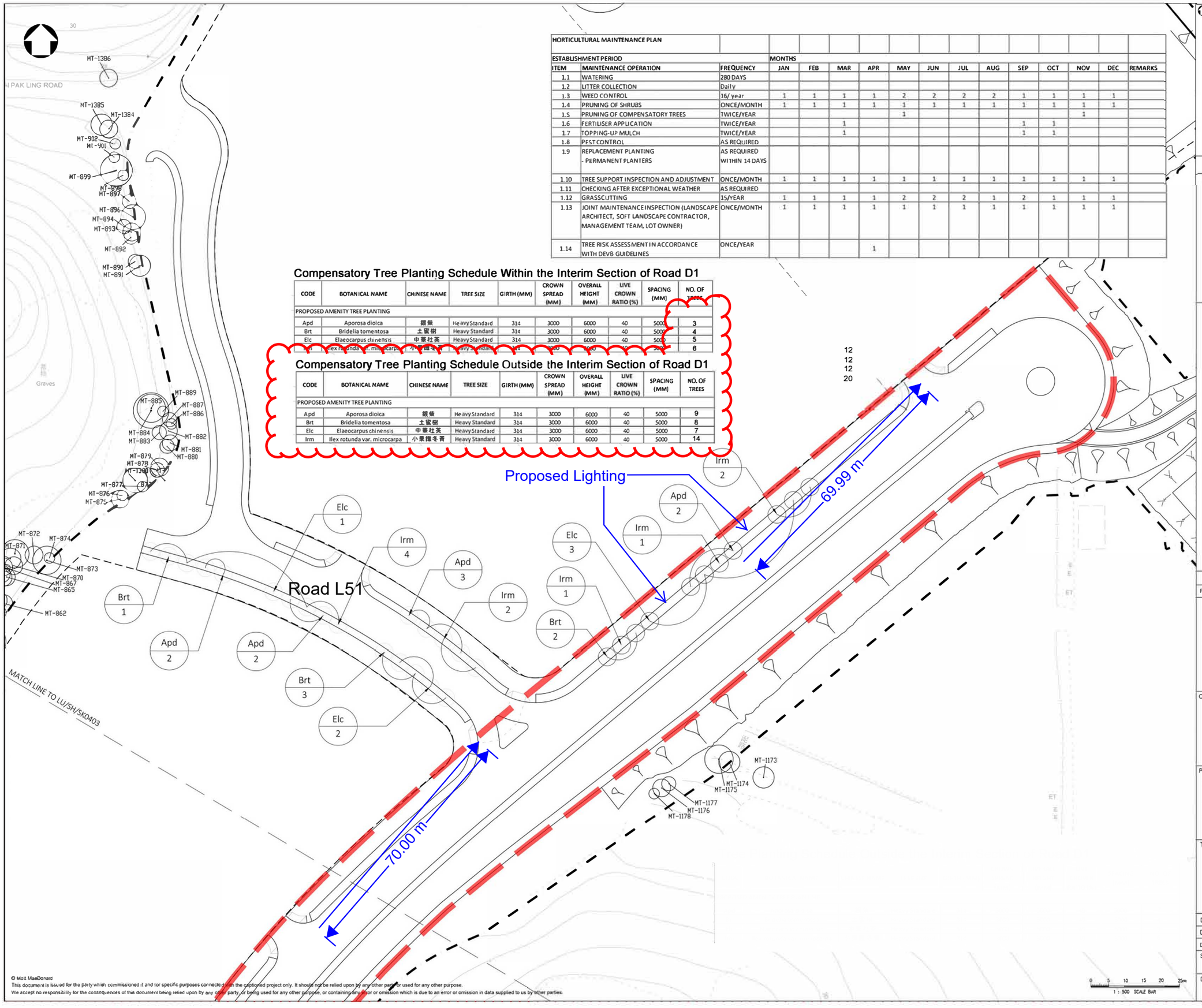
HORTICULTURAL MAINTENANCE PLAN															
ESTABLISHMENT PERIOD			MONTHS												
ITEM	MAINTENANCE OPERATION	FREQUENCY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	REMARKS
1.1	WATERING	280 DAYS													
1.2	LITTER COLLECTION	Daily													
1.3	WEED CONTROL	16/ year	1	1	1	1	2	2	2	2	1	1	1	1	
1.4	PRUNING OF SHRUBS	ONCE/MONTH	1	1	1	1	1	1	1	1	1	1	1	1	
1.5	PRUNING OF COMPENSATORY TREES	TWICE/YEAR					1						1		
1.6	FERTILISER APPLICATION	TWICE/YEAR			1						1	1			
1.7	TOPPING-UP MULCH	TWICE/YEAR			1						1	1			
1.8	PEST CONTROL	AS REQUIRED													
1.9	REPLACEMENT PLANTING - PERMANENT PLANTERS	AS REQUIRED WITHIN 14 DAYS													
1.10	TREE SUPPORT INSPECTION AND ADJUSTMENT	ONCE/MONTH	1	1	1	1	1	1	1	1	1	1	1	1	
1.11	CHECKING AFTER EXCEPTIONAL WEATHER	AS REQUIRED													
1.12	GRASSCUTTING	15/YEAR	1	1	1	1	2	2	2	1	2	1	1	1	
1.13	JOINT MAINTENANCE INSPECTION (LANDSCAPE ARCHITECT, SOFT LANDSCAPE CONTRACTOR, MANAGEMENT TEAM, LOT OWNER)	ONCE/MONTH	1	1	1	1	1	1	1	1	1	1	1	1	
1.14	TREE RISK ASSESSMENT IN ACCORDANCE WITH DEVB GUIDELINES	ONCE/YEAR				1									

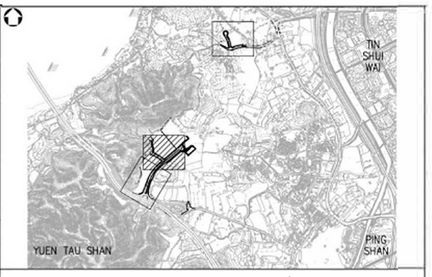
Compensatory Tree Planting Schedule Within the Interim Section of Road D1

CODE	BOTANICAL NAME	CHINESE NAME	TREE SIZE	GIRTH (MM)	CROWN SPREAD (MM)	OVERALL HEIGHT (MM)	LIVE CROWN RATIO (%)	SPACING (MM)	NO. OF TREES
PROPOSED AMENITY TREE PLANTING									
Apd	Aporosa dioica	銀柴	Heavy Standard	314	3000	6000	40	5000	3
Brt	Bridelia tomentosa	土蜜樹	Heavy Standard	314	3000	6000	40	5000	4
Elc	Elaeocarpus chinensis	中華杜英	Heavy Standard	314	3000	6000	40	5000	5
Irm	Ilex rotunda var. microcarpa	小果鐵冬青	Heavy Standard	314	3000	6000	40	5000	6

Compensatory Tree Planting Schedule Outside the Interim Section of Road D1

CODE	BOTANICAL NAME	CHINESE NAME	TREE SIZE	GIRTH (MM)	CROWN SPREAD (MM)	OVERALL HEIGHT (MM)	LIVE CROWN RATIO (%)	SPACING (MM)	NO. OF TREES
PROPOSED AMENITY TREE PLANTING									
Apd	Aporosa dioica	銀柴	Heavy Standard	314	3000	6000	40	5000	9
Brt	Bridelia tomentosa	土蜜樹	Heavy Standard	314	3000	6000	40	5000	8
Elc	Elaeocarpus chinensis	中華杜英	Heavy Standard	314	3000	6000	40	5000	7
Irm	Ilex rotunda var. microcarpa	小果鐵冬青	Heavy Standard	314	3000	6000	40	5000	14





KEY PLAN (1:25000)

LEGEND

- SITE BOUNDARY
- PROPOSED SITE
- +43.0 PROPOSED LEVELS
- EXISTING TREE TO BE RETAINED
- TRANSPLANTED TREES
- PROPOSED AMENITY TREE PLANTING
- Apd / 2 SPECIES CODE / NO. OF PLANTS
- Works boundary under Contract No. YL/2020/03

GENERAL NOTES

- AMENITY TREES (HEAVY STANDARD SPECIMENS) ARE PROPOSED FOR ROADSIDE AREAS. THE SELECTED SPECIES WILL INCLUDE TREES SUCH AS APOROSA DIOICA, BRIDELIA TOMENTOSA, ELAEOCARPUS CHINENSIS AND ILEX ROTUNDA VAR. MICROCARPA.
- EXISTING TREES PRESENT WITHIN THE SITE BOUNDARY WHICH ARE UNAFFECTED BY THE WORKS SHALL BE RETAINED AND DISTURBANCE SHOULD BE AVOIDED BY THE PROPOSED PLANTING WORKS.
- THE PROPOSALS FOR THE COMPENSATORY TREE PLANTING FOR THE ACCESS ROADS WILL BE COMPLETED ONCE THE ENGINEERING SCHEME IS FINALIZED.
- THE SPECIFICATIONS FOR PRE-PLANTING AND PLANTING WORKS WILL FOLLOW THE GENERAL SPECIFICATION FOR CIVIL ENGINEERING WORKS (2006) SECTION 3- LANDSCAPE SOFTWORKS AND ESTABLISHMENT WORKS.
- THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH DRAWING NOS. 38028/LU/SH/SK0401 AND SK0403.

Rev	Date	Drawn	Description	Ch'k'd	App'd
1	JUN 21	FY	GENERAL REVISION	CJF	CJF

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Client: CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

Project: CONTRACT NO. YL/2020/03
HUNG SHUI KIU / HA TSUEN
NEW DEVELOPMENT AREA
STAGE 1 WORKS - SITE FORMATION AND ENGINEERING INFRASTRUCTURE

Title: COMPENSATORY TREE PLANTING PLAN AND SCHEDULE -SHEET 2 OF 3

Designed	FY		Eng check	CJF	
Drawn	WC		Coordination	SL	
Dwg check	YK		Approved	CJF	
Scale at A1	1:500	Status	-	Rev	1

Drawing Number: 380288/LU/SH/SK0402

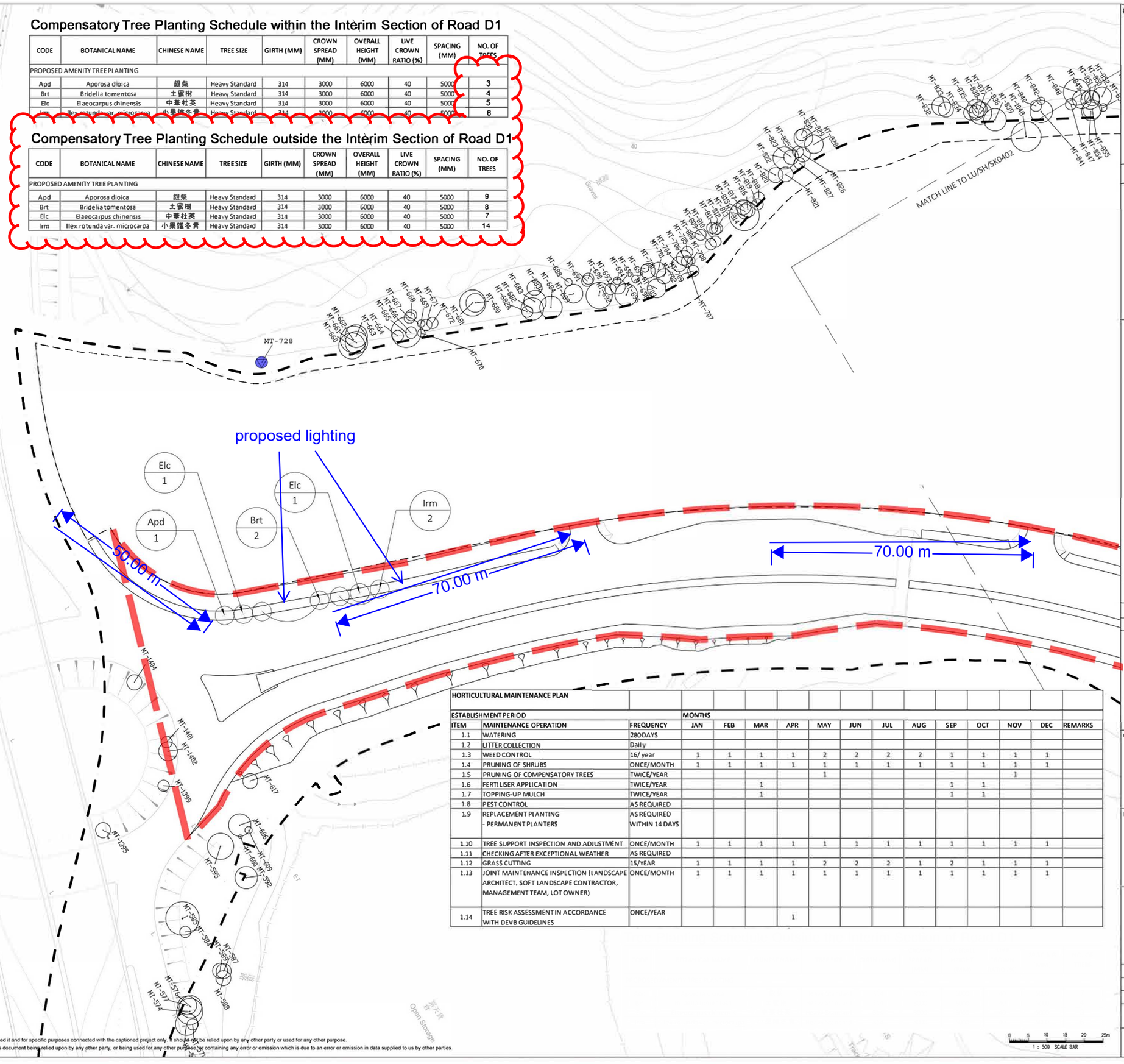
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Compensatory Tree Planting Schedule within the Interim Section of Road D1

CODE	BOTANICAL NAME	CHINESE NAME	TREE SIZE	GIRTH (MM)	CROWN SPREAD (MM)	OVERALL HEIGHT (MM)	LIVE CROWN RATIO (%)	SPACING (MM)	NO. OF TREES
PROPOSED AMENITY TREE PLANTING									
Apd	Aporosa dioica	銀柴	Heavy Standard	314	3000	6000	40	5000	3
Brt	Bridelia tomentosa	土蜜樹	Heavy Standard	314	3000	6000	40	5000	4
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Irm	Ilex rotunda var. microcarpa	小果鐵冬青	Heavy Standard	314	3000	6000	40	5000	8

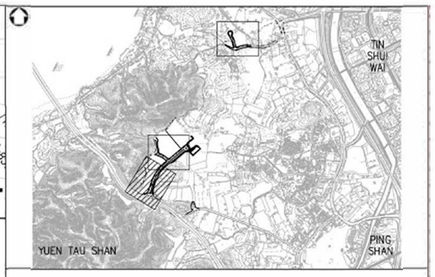
Compensatory Tree Planting Schedule outside the Interim Section of Road D1

CODE	BOTANICAL NAME	CHINESE NAME	TREE SIZE	GIRTH (MM)	CROWN SPREAD (MM)	OVERALL HEIGHT (MM)	LIVE CROWN RATIO (%)	SPACING (MM)	NO. OF TREES
PROPOSED AMENITY TREE PLANTING									
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HORTICULTURAL MAINTENANCE PLAN															
ESTABLISHMENT PERIOD			MONTHS												
ITEM	MAINTENANCE OPERATION	FREQUENCY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	REMARKS
1.1	WATERING	28ODAYS													
1.2	LITTER COLLECTION	Daily													
1.3	WEED CONTROL	16/ year	1	1	1	1	2	2	2	2	1	1	1	1	
1.4	PRUNING OF SHRUBS	ONCE/MONTH	1	1	1	1	1	1	1	1	1	1	1	1	
1.5	PRUNING OF COMPENSATORY TREES	TWICE/YEAR					1						1		
1.6	FERTILISER APPLICATION	TWICE/YEAR			1						1	1			
1.7	TOPPING-UP MULCH	TWICE/YEAR			1						1	1			
1.8	PEST CONTROL	AS REQUIRED													
1.9	REPLACEMENT PLANTING - PERMANENT PLANTERS	AS REQUIRED WITHIN 14 DAYS													
1.10	TREE SUPPORT INSPECTION AND ADJUSTMENT	ONCE/MONTH	1	1	1	1	1	1	1	1	1	1	1	1	
1.11	CHECKING AFTER EXCEPTIONAL WEATHER	AS REQUIRED													
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1.14	TREE RISK ASSESSMENT IN ACCORDANCE WITH DEVB GUIDELINES	ONCE/YEAR				1									

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KEY PLAN (1: 25000)

LEGEND

- SITE BOUNDARY
- PROPOSED SITE
- +43.0 PROPOSED LEVELS
- EXISTING TREE TO BE RETAINED
- TRANSPLANTED TREES (AT THE PERMANENT RECEPTOR SITE)
- PROPOSED AMENITY TREE PLANTING
- Apd / 2 SPECIES CODE / NO. OF PLANTS
- Works boundary under Contract No. YL/2020/03

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Rev	Date	Drawn	Description	Ch'k'd	App'd
1	JUN 21	FY	GENERAL REVISION	CJF	CJF

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CEDD CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

Project

CONTRACT NO. YL/2020/03
HUNG SHUI KIU / HA TSUEN
NEW DEVELOPMENT AREA
STAGE 1 WORKS - SITE FORMATION AND ENGINEERING INFRASTRUCTURE

Title

COMPENSATORY TREE PLANTING PLAN AND SCHEDULE
-SHEET 3 OF 3

Designed	FY		Eng check	CJF	
Drawn	WC		Coordination	SL	
Dwg check	YK		Approved	CJF	
Scale at A1	1:500	Status	-	Rev	1

Drawing Number: 380288/LU/SH/SK0403

0 5 10 15 20 25m
1 : 500 SCALE BAR